



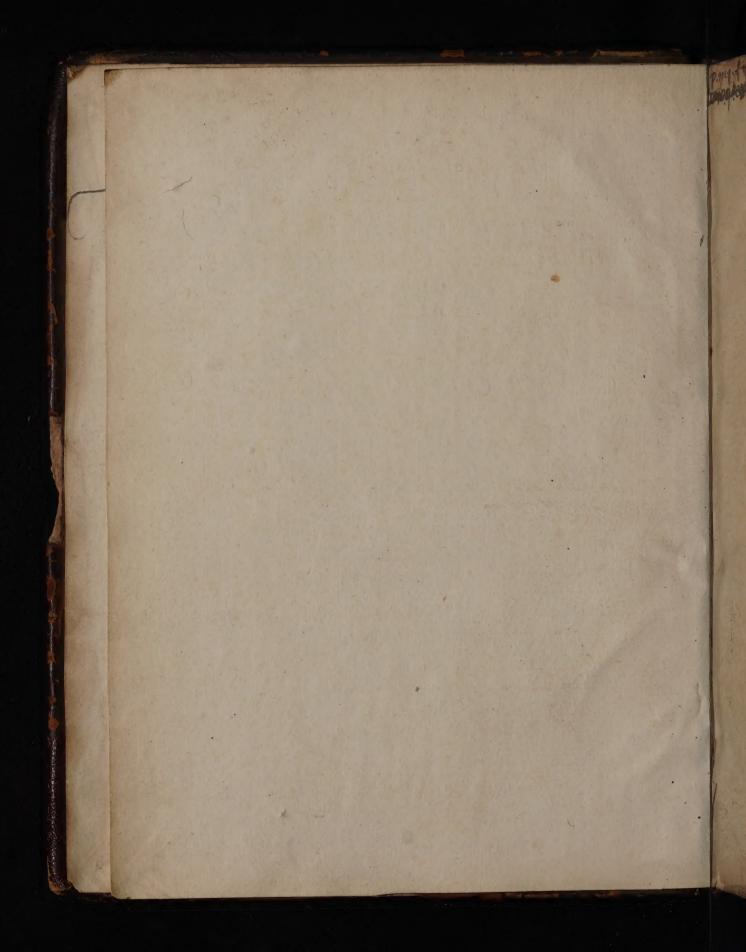






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# Lord Bacons

SWEATING-SICKNESS

Examined, in a

# REPLY

TO

GEORGE THOMSON,

Pretender to Ohymistry.

Together with

### A Defence of PHLEBOTOMY

In general, and also particularly
In the SMALL-POX, SPLEURISIE.

In Opposition to the same Author, and the Author of Medela Medicina, Doctor Whitaker, and Doctor Sydenham.

ALSO

A Relation concerning the strange Symptomes happening upon the Bite of an ADDER.

AND

A REPLY, by way of Preface to the Calumnies of Eccebolius Glanvile.

By Henry Stubbe Physician at Warwick.

Nec temere nec timides

London, Printed for Phil. Brigs, and are to be Sold by Book-Sellers in London. 167 I. LOID BROOKS

SWEATING SICKNESS

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CEORGE THOMSON

A Defence of PHLEBOTORING

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TO THE

# READER

Reader,

Ou are to take notice that the Author whenfoever he names his Adversary hath chosen rather to affix a Black line, than to give him the Title of Doctor: not out of any contempt, or that he would deny him what is his due and right, though by PURCHASE: but he could not be any way informed that he was any Graduate, though he write himself M. D. nor do any of the Colledge own any fuch thing. As for what is faid, that Hepurchased a DOCTORAL DIPLOMA to justifie his practice Legally in any place of the world. H.S. professeth he doth not understand whether this import any more than a LICENCE to PRACTISE, which looleth much of its validity

To the Reader.

PURCHASE: As for DOCTORAL Diploma's, he never heard they were any where to be purchased without taking of the Degree, and in that manner it may be purchased, it being usual at Leyden and Padua to sell them, with this Elogy: Accipiamus pecuniam, & dimittamus Asinum. If it be due to him, the Reader may supply the blank with what is fitting, and term him either Mr. Thomson, or G. Thomson the DOCTOR BY PURCHASE.

Yours

H. S.

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#### TOTHE

Learned and Judicious Prefident and Fellows of the Kings Colledge of Physicians in LONDON.

SIRS,

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Hat there are certain periodical revolutions in Nature, whereby the same calamities, distractions, and diseases renew themselves, and afflist man-kind over and over again, bath been the ancient observation of prudent men. Agreeable hereunto it is, that in our Age we see the contempt of Ancient Learning revived; and experiment a new inundation of Goths and Vandals amongst us, but not likely to be so samed as the former, for Civil prudence, and Cassidor. Military conduct. But as they bear a great refemblance to those Barbarians, in demolishing old. Structures and Books; (o herein they out-doe Theodoric, in that they promote a Licentiousness of Experiments in Physick, which that wife Goth Jeverely forbad, out of tender regard to the welfare of his Subjects, in the loss of whom, Princes themselves become Susterers. When the Europæan Chri- .

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Christians were reduced to their greatest ignorance, and rudeness, they retained so much of sense as to apprehend this evil; and to remedy it, and to furnish themselves with able Physicians in difficult cases (in the more facile men, are less sensible of their want ) they erected Phyfick into a Faculty, graduated the Doctors, and did subordinate the Apothecaries unto them, and lest every practitioner punishable lege de sieariis, or by some extraordinary penalty, under whom any patient should dye, if the traditions of the Art were not observed, but the Method, or of the digeth. I. Medicaments found unwarrantable. What Henry the eighth did in modelling your illustrious Colledge, was but an imitation of these Sage Con-Stitutions, which ( descending from the Emperour Frederick the second, in 1221.) all Europe had submitted unto: These the King prosesset to take for his example, and the motive he went upon was, a regard to the benefit of his Liegepeople; as our Law sheweth. The event of which determination was such as demonstrated it to be highly prudential: it gave such a lustre and encouragement to Physicians, that the prosession became splendid for the number and quality of fuch as embraced it, and added as much to the glory of our Nation, as it brought other benefit. YOU, as well by your own merits, as the appointment of our Monarchy, are the great Tribunal

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of our Faculty: upon YOUR SENTENCE, in difficult cases, we depend; To YOU, we are referred, as the supreme Judges of our Methods and Medicaments: 'Tis our Glory, 'tis our Secu. rity, to be your followers, and that which crowns all our practice is, to be at last of YOUR NUMBER. But the innovations of late years have taken off much from your renown and Authority; and though YOU have in abilities equalled or transcended your Ancestours, yet bath your Credit been extenuated and impaired: which is so much the more to be resented, in that it arose not from any evil effect of our late Civil Wars, but the insolence and extravagance of more modern attempts. Others, contrary to our Laws, have usurped YOUR OFFICE, pretending to reform the Ancient Rules, Methods, and Medicaments, and giving encouragement to all manner of Empiricks and Quackfalvers, fo that the Faculty is in danger to be overthrown, and the Nation to be subjected to all those inconveniencies which the defect of able Physicians, and the multiplying of cheating Mountebanks can introduce: and when some years shall have removed or extinguished the present Physicians and Chirurgeons which are eminent, scarce any County will yield one fit to be consulted with in difficult Cases. All this mischief hath its principal source, original, and strength from the Bed -

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The Epistle

BACONICAL PHILOSOPHERS, and the impudence of ---- Thomson proceeded so far as to decline Your Judicature, and appeal to theirs in matters relating to the practise and being of Physick. Though the Man be despicable, the President is not: Examples stick not where they begin; and from as trivial a rise as this, I have observed, that the priviledges of greater Courts have been infringed, and others from non-judices advance themselves to become Judges, where they ought not to interpose. This consideration, and not any value I place on my Adversary, made me employ some of that little leisure which I have, in contriving a remedy for this growing evil; and I concluded that it might adde something to your grandeur; if I descanted upon the miscarriages of the Lord Chancellour Bacon, and in him shewed what incompetent Judges they are in Physick, either as to the stating of a disease, or recording its cure, who are not perfect Artists, and accomplished in our Science, whatever excellencies they have otherwise acquired, and what ingenuity soever nature may have bestowed on them: In representing of his faileurs, Ithought I might deterr others from the like attempts. who are not Bacons, but Hogs, that yield much Cry, but no Wool. As for the suppressing of Mountebanks and Empiricks of leffer note, I think the most ready course would be to acquaint

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the Nation with the History of the Faculty of Physick, the Laws made about it in several Countries, the motives inclining Princes thereunto: the Edicts against Empericks made by King John, and Charles the fixth in France, and others elsewhere: as also the dismal effects which followed all over Europe, after that Paracelsus and his followers had decryed the established Physick, and introducing new terms, principles, methods, and medicaments, and imboldened every Mountebank to make trials with his Arcana. This Course, I think, would best undeceive the people, and make them cautious, willing to learn by the fad examples of what others have suffered, and to pursue those remedies by which they have been relieved. And it would incline the Parliament to pass those Acts by which the Faculty may be supported, and all the rational Physicians in England imbodied into one common interest, and mutual dependance; whereby it will be facile for us to advance the Science to that height and usefulness whereunto no other contrivance can bring it; and to secure not only our selves, ( and that Profession which is and will be an ingenious education and subfistence for the younger Gentry ) but also Learning it self from apparent destruction. I should expatiate too much in this address, should I propose the

The Epistle Dedicatory.

wayes of advantaging Physick, and the most feafible projects for the carrying them on: But I beseech you to believe, I bring along with me in this address all that respect, all those inclinations to serve you, which become the most affe-Elionate of your friends, and particularly

Warwick Jan. 12. Your most devoted servant

HENRY STUBBE,

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## LORD BACON'S RELATION

OF THE

### SWEATING-SICKNESS.

Bout this time in Autumn, towards the end Hift. Hen. 7.

"of September, there began and reigned in p. 9. take No"the City, and other parts of the Kingdome, Book hath no
"a Disease then new: which, of the Acci-Index.

"dents and manner thereof, they called the Sweating-

"dents, and manner thereof, they called the Smeating"Sickness. This disease had a swift course, both in the
"fick body, and in the time and period of the lasting there"of: for they that were taken with it, upon four and
"twenty hours escaping, were thought almost assured.

"And, as to the time of the malice and reign of the Dis"ease, e're it ceased; it began about the one and twentieth
of September, and cleared up before the end of October,
insomuch that it was no hindrance to the Kings Coromation, which was the last of October: nor (which was
more) to the holding of the Parliament; which began
but seven dayes after. It was a Pestilent Feaver, but
(as it seemeth) not seated in the veins or humours,
for that there followed no Carbancle, no purple or livid

spots, or the like, the Mass of the body not being taint"ease"

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"ed: only a malign vapour flew to the Heart, and seized the vital spirits; which stirred nature to send it forth by an extream sweat. And it appeared by experience, that this Disease was rather a Surprize of Nature, than obsticate to Remedies, if it were in time looked unto. For, if the patient were kept in an equal temper, both for clothes, fire, and drink, moderately warm, with temperate Cordials, whereby Natures works were neither irritated by heat, nor turned back by cold, he commonly recovered. But infinite persons died suddenly of it, before the manner of the Care and attendance was known. It was conceived not to be an Epidemick disease, but to proceed from a malignity in the constitution of the Air, gathered by the pre-dispositions of the seasons: and the speedy cessation thereof declared as much.

Shall not here transcribe all that I writ against the Historiographer of the Royal Society: some thereof relating more to the particular faileurs of Dr. Sprat, than the mistakes of the Lord Bacon: Indeed the errour of that Virtuoso was such in that case, that itis scarce imaginable how a man could be guilty of it, and pretend to conmon reading : Those that I am now to infift on, are fuch as peculiarly refer to the Lord Bacon, and argue his ignorance in Physick. And although it may be said in his behalf (as I observed) that in an Historian we are not to be critical for every punctilio, not relating to his main defign, yet I think 'tis but jut to demand, that what he doth write be trae: And although cases in Physick, no more than cases in Law, are to be determined out of vulgar Historiographers, but Authentick records penned by Artists; yet since the repute of my Lord Bacon is great in this Age, and made use of to the prejudice of Our Faculty, more wayes than one; and fince my Adversary pretends to justifie the exactness of the account afore-mentioned. I shall recollect my Exceptions against it, and then consider what he layes in his defence.

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I complain'd that the relation is defective in fundry material circumstances, as to the Type, or description of the

Disease; and as to its Cure.

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He sayes no more of its Type, then that It was a perstilent freaver, terminating in twenty four yours, without any Carbuncie, or purple and livid spots, or the
like: wherein a making vapour slew to the Deart, and
seized the vital spirits, which stirred nature to send it
south by an extream sweat. Whereas it seized upon
them with a violent heat, and incredible anxiety about
their stomach and head; and insatiable thirs; and the
sweat which ensued was noysome and stinking. This appears not only out of Polydore Virgil, and Hollinshed, but

fuch Physicians as writ of it, and are alledged by me: to which I add, the Authority of Wierus, who wrote an excellent discourse of it, and having related the Type of it agreeable to what our Records declare, he adds, that in Germany it began with a chilness and soivering, which continued half an hour or more, and with great pains about the diaphragme and groyn, palpitation of the heart, sudden debility of strength, so that the patient could searcely stand on his feet: sometimes it seized them with a Giddiness, and pain in their heads; and sometimes (though seldome) they vomited up black blood, or choler:

Joh. Wierus observat, l. 22 de Sudore Anglico, sect. 82 and sect. 14. Signa morbi bujus -- breviter talia sunt, Frigus & borror, sudor fatidus cum magna angustia & caloris sensu circa cor & petus, & pracordia, etiam palpitatu cordis, & calor. Rubor & tumor faciei, cum dolore capitis: multi etiam dolore capitis: multi etiam dolore lumborum teneantur, alii ventris, alii semachi: alitalis in pastibus dolores percipiunt.

Also, that in the beginning of the disease, the patients hands were swelled and siff. I added out of Septalius, that the Ludov. Septal. Urine in that disease was commonly livid and putrid; de peste. I. I. that some pissed blood, others did veid blood at their noses, and even ears and eyes. In fine, the Type of it is thus described by Carolus Valesius Dubourghdieu; Ce Pestis hujus Carolus Valesius Dubourghdieu; Culi morsus, anxietas, cephalalgia, pulsus creber, celer & in-c. 14. p. 227. Anxietas, cephalalgia, pulsus creber, celer & in-c. 14. p. 227. Anxietas, cephalalgia, pulsus creber, celer & in-c. 14. p. 227. Anxietas, cephalalgia, pulsus creber, celer & in-c. 14. p. 227. Anxietas, cephalalgia, pulsus creber, celer & in-c. 14. p. 227. Anxietas censeri poterat, licet viginti quatuor harb no Index. Nec inter Ephemeras censeri poterat, licet viginti quatuor feetidus

· Sudor

· [udor, non tantum spiritus accensos, sed etiam humores putredinem concepise arqueret, qui nimirum maxime natura 'adhuc robusta & lacessita impetu pellerentur. I more willingly cite such Authors as I mentioned not before, to the end that the Virtuosi may be more ashamed of that pra-Dirious errour which they committed in that History of Describit bane theirs. Erasmus gives this relation of it; " Non alind malum horribilius, nec contagium periculosius, habet tamen mus harum calamitatum spe'illud boni, quod non excarnificet hominem diutinis cruciati-Casor, in epi- bus, intra duodecim horas, interdum intra pauciores aut tolstola ad Caro- lit hominem, aut certam vita spem prabet: atque initio quivium ; citante dem, ut fit, festine, affligit sudore, sed igneo, odoris teter-Forresto, in crimi: visum est ex amne Phlegetonteo emissum hoc ma-Schol, observ.7. 11mt. Orgues potissimum excruciat, alas ita comprimit, ut rol. Vales. ubi c etiamsi velis, non possis attollere. Qui fervoris erant immitientes, & auram largius admittebant, hi fere subito extincti (unt: rursus alii cum animadverterent, id compluribus infaleciter cessisse, dum in diversam tendunt rationem, in idem tum exitiam inciderunt: nam occlusis riemis omnibus, & excitato igne copioso, opertique stragulis, quo magis tutiusque sudarent, astu prafocati sunt. Prasentius tamen exitium adferebat admissum frigus: tandem

remedium hactenus repertum est. These desects are in the Type of the disease: and in relation to the Cure, 'tis faid by him, that Mature did nischarge it felf of the malign vapour by an extream fineat. I observed that to be directly contrary to what is recorded by others about it, which is manifest out of Caius, Forrestus, Erasmus, Sennertus, and others that relate J. Wierus, ub' the disease. I shall here add wierus, who sayes, seed prasertim magna cura est adhibenda, quando ager sub invafionem morbi e vestigio calefactum lectum ingreditur, &

> fragulis, ad evitandum frigus ambiens tegitur, ne stragulis nimium oneretur: recordor enim, quod multi à stragulo-

> reperto temperamento multo plures ab eo morbo convalue-

crunt, quam extincti sunt: tamen tanta lues, nondum eo tempore invenit nomen, nec ullum efficax ab arte medica

Supra. sect. 9

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(5) rum pondere nimio fuerint excalefacti, suffocati & mortul. fuerint. ---- In like manner writes Cornelius Gemma. Nec te prateribo hen nimirum dira mortalium lucs, cui He speaks of its Sudoris Anglici, vel id an ve 72, nomen ab ipsa symptomatis original in re-Specie indiderunt. Orta est hac anno 1529. circa astatem many, where is post humidissimam cœli constitutionem ut à patre pie me-first appeared "moria (qui & eundem morbum passus est tum temporis, at that time. 'evasit que faliciter) ipsius audivi. Primum vero ex Bri-Cornel. Gemctannicis locis terras maritimas Hollandiæ, Zelandiæ per-cosmocritic. vagata, Antverpiam venit, at celerrime in Flandriam, ' totamque Brabantiam sparsa, uno die sudoris infanda eluvie ' hominum vel multa millia suffocabat. His aderat ea de-' mentia, ut sese lectis & linteis insui paterentur, omni arte 'ac vi eliciendum sudorem arbitrati: Heu nimis immemores Hippocratica voces, qua fic ait: Si talia purgantur, quaqualia purgari oportet, confert ac facile ferunt; fin mienus contra. Imo interea dum alter alterum strangularet, qui prasentes aderant, mutuo adhortabantur; ne se negligerent, vigente morbi fecia, nec victi pretio, aut precibus e se ante tempus liberent. Verum quando ad illos ordo pervenerat, ut sudandi tempus videretur, consuti similiter, \* & violenter operti clamitabant misere, obtestabantur deum catque hominum fidem, sese dimitterent, se suffocari injectis emolibus, sese vitam in summis angustiis exhalare. Sed as-'s fistentes, has querelas ex rabie proficisci Medicorum opinicone persuasi, urgebant continue, usque ad viginti quatuor horas, id enim erat sudandi spatium prafinitum, ante cujus circuitum evasere quam paucisimi: Tertia mortalium pars errore proprio atque in ania misere strangulata est.

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Vitaque cum gemita fugit indignata sub umbras.

The same is avowed by Levinus Lemnius, whose discourse I will also transcribe. "Ad febrem ephemeram Levin, Lemnifive diariam referri debet Sudor Britannicus, cujus morbius, de complexisymptoma seu accidens est Cordiaca syncope, vel animi dese on. 1. 2. c. 2.
Etus, qui ex stomachi morsu contractus, non minori essettu
hominem

hominem conficit, quam si cor vitæ fontem halitu contagioso forinsecus ingruente, opprimi contingat: quod observatum est anno 1529. mense Septembri in pestilenta Ephemera, que ex aeris contagio exorta totam Belgicam invasit magno terrore, animique deliquio & palpitatione cordis. Cui hoc 'accessit incommodi, quod Empirici quidam prater artis rationem, nec observatis natura viribus, duodecim horarum ' spatio in sudore agrotos violenter continerent. Quum autem caer vitiatus infectusque hinc malo seu ephemera febri cauc sam prebeat, symptoma vero atque accidens, quod comitatur, ut umbra corpus, Cordiacus sit affectus, atque animi deliquium, tum sudor ipse Crisis statuitur, quo natura robur excussa madida olentique fuligine, morbum discutit, equocirca necesse est moderatus is sit, nec quatuor aut sex 6 horarum spatio productior, pro virium imbecillitate & robore: immodices enim vires dejicit, ac spiritus vitales depopulatur. Quod autem morbus hic Britannicus dicitur. e vel Sudor Anglicus, hinc enatum ominor, quod in ea reoione populares frequentius illo, corripiantur, partim ob oper rosas lautasque mensas, ac ciborum affluentiam, qua illos distendi contingit, ut Germanos & Belgas potu, partim (ut superiore anno à me observatum est ipso etiam Solstitio aftive) ob aerem turbulentum ac nebulojum, densaque cae ligine passim offusum, quo fit, ut conceptaintus & foris morbi causa atque origine, non sine sanguine & sudore cum illo colluctentur, quas cum valido & preferoci hoste certamen 's sit initum, quem summis viribus excussife laborent, hinc corporis animique defectus & deliquium, binc spiritus · languidi & collapsa vires, hinc intercepta voce occlu-· sisque spirandi fistulis, vite propemodum interitus atque examinatio. ---- This being the judgment of all Phyherans that write of it, and agreeable to the tradition of all Historians; I do not doubt to record the contrary report thereunto for a fundamental errour in order to the sure. I farther observed, that whereas the others direct, that that the fick party, if dreffed in his clothes, should immediately lye down in them, without adventuring to dif-

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robe himself: this circumstance, though of extraordinary importance ( as appears by those Chronicles I cited, and other writers ) was totally omitted by my Lord Bacon: and that great caution of not putting the hand or foot, or any part of the body out of bed, or into any cool place, is not fufficiently expressed in that affertion, that they ought to ke. p themselves in an equal temper, both for clothes and fire. Yet is this observation so considerable, that all severely inculcate it, as being absolutely necessary to the recovery of the fick: and so first were the Phylicians herein, that wierus saith, for this cause he could not observe 3. Wierus, ubi the pulse, or urine of the fick, till the declination of its supra, sect. 15. violence. No less impersect is that general intimation of my Lord Bacon, that they were to keep themselves with drink moderately warm, and temperate Cordials, whereby natures work be not irritated with heat, nor turned back by cold: as any man will fee, who consults Caius, and Wierus, and others. Another omission of my Lord Bacon's was, That he forbids not the patient to sleep during the disease: whereas I observed out of Cogan, Ist they were the cogan's fusfered to steep, commonly they swooned, and so de-Haven of parted, or else immediately upon their waking. Which caution is ingeminated by wierus, " Quandiu durat vis 3. Wierus, ubi Sudoris fatidi, nec manus detumescunt, nec symptomata supra, sect. 10. cessant, oportet à somno abstinere, eique resistere vel pis colloquiis, vel aliis licitis mediis. In all pestilential feavers we are usually cautious how the patient sleep, till the venome of the disease be somewhat driven out and abated: and so in such feavers as are Cordiacal, and attended with fainting fits, malignity encreaseth, and diffuseth it self insensibly into the principal parts during sleep. As to the name of the disease, and under what species of feavers it was to be reduced, the Physicians could not

agree in those dayes: nor whether the sweat it self were

symptomatical, or critical; for though all that recovered

did recover by sweating, yet all that had the disease did

not sweat ( such dyed ) and if it were symptomatical,

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Valles. method. yet the evacuation was of that nature, that it seemed agreeonedendi, l. 2. able to the Rules of Physick, neither to stop it, not yet to help it, but only to continue it: and if it were Critical, C. \$ 3. it was to be continued onely, in like manner; and nature not to be affisted, or vigorated, beyond what was necessary. It being our Aphorism, Qua judicantur, & judicata sunt Hippocr. Aph. sect. 1. aph. 20. integre, neque movere, neque novare, neque pharmacis. cum notis Val- neque altis irritamentis, sed sinere. But though they had these controverses amongst them, yet I do not find this to be one; EChether that the Feaver of Pest did confix in a vapour afficing only the vital spirits? "Cum febr. l. 4.c. 15. enim cam sudores copiosissimi, & multa pessima symptomata Sennert. de comitata fint; inde facile colligere est, spiritus non solum inde sudore Ancensos, verum és ipsos humores ac calidiores affectos és corglice. cruptos effe. Et licet vigints quatuor horarum spatio bac febris solveretur: non tamen ideo ad Ephemeras referenda est, sed inde potius maxima inter naturam es inter peffimum morbum colligiour pugna. So wierus. F. Wierus, ubi though he hold that it feize ! first on the vital spirits, yet Supra Jest. 7. avowes, that the mass of blood was also corrupted by the pestilent venome: Nor can any man doubt it, who confiders but the Type and Symptomes of the Disease, which I formeriy, and now again have represented; as also the precedent leason of the year. And I could not but smile at the reason given by my Lord Bacon, to shew that the pestilent feaver was not seated in the veins or humours, nor the Mass of the body tainted. Because there followed na Carbancle, no purple or livid spots, or the like. For there are many postilential diseases recorded, in which the mass of the blond and humours are infected, and yet there are no fuch symptomes enfuing, as this Lord specifies. Such was the disease called Coqueluche, or Morbas Arietis, and Catarrhus Epidemius, in the year 1580. which over-ran all Europe, and of which fundry Authors have written: fuch were the pestilent pleurisies, postilent plearipneumonies, and pestilent peripneumonies, dysenseries, morms, small pox, of which our Physicians give us large

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accounts: and in the Histories of fundry camp-feavers, being pestilential, and insecting the hamours and mast of blond, you may often read how none of these cutaneous eruptions were observed: no 'tis not constant in the Hungarian, or spotted feaver, that they appear. Neither is there any thing more true, than what Massarias layes Alexan's Mes down. "Etst diximus & peticulas & cateros decubitus for sas de cateros. propria esse signa fere febris pestilentis, tamen id Sciendum est, neque id generaliter verum esse, neque hujusmodi ' symptomata illis propria & inseparibilia esse: Siquidem ex una parte nonnunquam evenit, ut in febre manifeste pesti-'lenti, ac forte cateris maligniore, neque papula, neque tumores, neque ulla natura depulsio conspiccatur: ex altera autem ut non solum in simplici febre, sed etiam ut placet Altio & multis, qui id confirmant verum esse, sine febre interdum compareant & masula, & alia id genus symptomata, que ab omni pestilentis affectus ratione sunt aliena, & nullum periculum afferunt. In fine, How often doth every practitioner see, that those purple or livid spots do not appear till after the party is deceased? And when they do appear, 'tis a Question with me, whether they argue so great an infection in the mass of blond and veins, as my Lord intends, seeing they have their original from the bones, and thence rife up to the skin, pyramidally. "Ja- Henricus blocobus Bontius --- cadaver cujusdam qui exanthematibus rentius in Petr. hisce laborarat, dissecuit, invenitque ab ossibus ipsis initium Paam de peste, (umere ea, incipereque a latiori basi, pyramidisque instar This book hath a surgere, ac tandem in summo cutis in conum definere. no Index. And this doubt of mine is confirmed unto me, by fundry reasons, which may be seen in Ilbrandus à Diamer-brook de pesses were a come to the contract of the history to have lib. I. c. 14. brook.

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The Lord Bacon concludes his Narrative with a paffage fo ridiculous and absurd, that so groß an opinion is enough to extenuate his judgment in Physick, and convince any man, that he had little insight into those studies. "It was conceived not to be an Epidemisk disease, but

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but to proceed from a malignity in the constitution of the Vide Vallesium. Air, gathered by the predispositions of the seasons. As if in praf. comment, in Epi- Epidemical diseases, and diseases from the constitution of the demia Hip- Air, were contradistinct; and that none of the former poor. Ruland could arise from infection, or corruption of the air: The gar. c. 8. qu. i. opinion is so false, and universally known to be so, that it Fernel. de noeds no resultation.

lib. 2. cap. 11.

Jul. Palmar. de Febre pestilenti, c. 2. Ludovic. Septal. de peste, lib. 1. c. 2. Neucrantzuyn de Purpura, c. 9. pag. 106. Zacchia. qu. medico-legal. lib. 3. tit. 3. Qu. 1. sett. 23. Mercatus de febr. l. 9. c. 1. Anton: Sarracen. de pest. nat. pag. 6,7,8. Th. Jordan, de pest. phanom. tr. 1. c. 2.

Having premised these things for the better understanding of the present Controversie, (most whereof were set down before in my Animadversions) I now come to consider the Desence which ---- Thomson makes in behalf of the Lord Bacon: and I find it so desective, that of all the Exceptions I have brought, only two are controverted; the rest are passed by in a prosound silence, by my talkative Antagonist.

The first is, as to the Cause of the Disease, that It confissed in a malign vapour, slying to the heart, and seizing on the vital spirits, which stirzed Bature to send it forth by an extream sweat.

The second, that The proper cure of the Sweating.

Sickness, conlisted in extream sweate.

To the first, ---- Thomson's reply is, "The material cause of this truculent disease, proposed by him is, a malignant vapour, i.e. Gas sylvestre, an incoercible spirit, which by reason of its subtilty, resembling the vital spirits, could readily mix it self with them, forthwith infecting the same, especially those about the heart; whereby the plastick power of the Archæus, as an efficient cause, the the persect Idwa, or image of this specifick disease is pourtrayed, part of the vital spirits, being, as it were tinged by the intermixture of these contagious particles, and part remaining in its integrity, being exasperated at the presented

p. 16.

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clence of such an hostile intruder, stirrs up nature, i.e. musters up all the faculties, forces, or strength belonging to suppose is the treener, or Archæus, and withall summoning the Latex, hould be or Lympha, to be affistant to the ablution and ablation of winequir. this fermenting, malign impurity, which is sent forth by 'an extream sweat. The inward procuring occasional excitative cause was a pestilent venome, a tabelying matter, immediately lodging in the degenerate juyces about the 's flomach and spleen (Helmont's duumvirate) not in the eveins or fictitious humours, which, sending forth fetid putrefactive particles, annoying the Archæus, caused an indignation, or fretting disposition, at presence of that which is altogether Exotick, and incongrucus with nature: whereupon thus put upon the stress, it exerts all its power and faculties to the expulsion of such a virulent Guest, per-· formed most conveniently by large sweats, before which; there must necessarily precede a feaver, from the collision, conglomeration, tumult, and confusion of the vital spirits 'thus assaulted; as is frequently observed to fall out, when 'any extraneous thing to Life getteth into the flesh, to wit, 'a thorn or splinter: so that a feaver is but a consequent of the fury and rage of the Archæus, and a precedent of the expulsion of the expression, the matter of the disease.

In this discourse there are so many un-intelligible canting terms, that to speak well of them, a man must be a Virtuoso: for that kind of men, being obliged by their constitution to be very civil one to the other, will bestow the Elogies of Learned and ingenious, upon the most ridiculous speaker that ever opened his mouth amongst them. The turning of a malignant vapour into Gas Sylveste, and making them synonimous, is an unpardonable errour in the Helmontian Phylosophy, which makes the Gas and Unpour to be distinct things in nature. "Itaque Gas distinguitur à vapore, quod in hee sal Grembs Arbor

assurgat cum mercurio, & habeat sulphur inclusum; Gas integr. & ruivero sulphur extravertit atque subdividit. The plastick de meteoris, power of the Archaus are empty words, and more difficult fect. 2. fect. 5.

expressions than ever poor Sriftotelian used. The whole paragraph is nothing but jargon and non-sense, yet suiting to the revocable Hypothesy of this Age. The juyces in the stomach were not degenerate; seeing that the disease did invade the most youthful and healthy. His placing of the infection in the degenerate Jupces of the Stomach and Spicen, and Latex, (another canting term) is contradictory to what the Lord Bacon faith, that the malion vapour did flye to the heart, and seized the vital spirits, and not the maß of blood, or other grosser juyces, called Humours. Oh most excellent Advocate, and Baconical Philosopher! If it did not invade and affect the blood, how came those sanguinary evacuations? 'Tis to no purpose to reply, that the vious and other humours (which composed that fetid sweat, and occasioned the hear, thirst, and other symptomes) were only secondarily affected; for then in the declination of the disease, there must have been Carbuncles or spots, according to that Judicious Historian. I think the Galenists give a better account of it, when they fay, that a particular wenome, or peculiar kind of superlative putrefaction, did at that time infest the air, which, encountring bodies predisposed to sweating-diseases, by the heat and moisture of the preceding year ( onolar des & yanlar her onolor, is come in rolon noestoso acoot zedu zed, Quando astas est similis veri, tum sudores multos in febribus expectare opertet) or perhaps by veleftial influences, occasioned, that disease: whereof the Cure was to be learned (it being a new disease) from the observation of that course by which Pature did ease it self: for of all the venenate qualities which, by infection of the air or diet, are inceptived and commission with the constitutive parts of men, scarce one produceth the same symptomes, or is cured the same way by which another is. I hus some spotted feavers have been cured by fluxes, others by sweat and urine: some have had their critical mations, others have been formalignant as to admit of no fuch periods; or delayes: And hence it is, that very emi--nent Physicians have not restrained the name of Plaque

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to any one form of disease, but left it unconfin'd. In this disease, fince none recovered but by sweat, and most recovered that were sweated moderately, (according to the relations given ) it was their business to promote Sweat, and therein to shew themselves subservient to nature: and herein the latter part of my Lord Bacon's account agrees with that of the Phylicians: viz. To keep the ivatient in an equal temper, both for clothes, fire, drink, morecately warm, with temperate cordials: though it be most false, that Mature was stirzed to cast forth the venome by extream sweats: for such dyed; and therefore such emotions must have been the consequence of Nature, erring through a virulent trritation, or fainting under a putrid exclution. As for the comparison betwixt this venome or Gas ( which - Thomson understands not what it is, being ignorant in his own principles ) and a thorn or splinter, 'tis most absurd: for those occasion only symptomatical Feavers; these wenerate aerial or dietetical poisons, produce originary and real feavers; they are intimately commixed with the maß of bloud and humours; and as in fermenting wine or Ale, the incoercible Gas hinders not the purification and generation of those generalis liquors, so neither would it here: but itis rather like those ferments or mixtures which corrupt the VVine or Ale several wayes, according to their several natures, but are not comprehended under the name of Gas peregrinum & Sylvestre. But I will Fo. Becherus not give my self the trouble of instructing these ignorant ran. 1.1. sec. 5. Baconical Virtuofi: 'tis an endle & work: 'tis enough that c. 2. fect, 29. Helmont supposeth that the Gas endureth not the Sulphur, whereas these no yome Sweats must have had much of that, it the (bymical writers may be believed.)

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As to the reason which my Lord Bacon gives why it was not seated in the veins, or mass of blood; because there were no purple or livid spots, nor carbuncle, or the like. In defence of that, all that - Thomson faves, is, SChat the reason did well become him: (which I

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Seafily grant, fince he understood not Physick) for in 'reality, the effects of this Anomalous person was most cominent in the Serum or Latex, a concomitant of the bloud, a great depraved quantity whereof was colelected in the body, through the then unaccustomed 'ill natural texture of the air, &c. This is all that he faith to the purpose: wherein, for proof, he gives us his own affertion; which the most illiterate Mountebank or Virtuoso may do: and 'tis contrary to all those presumptions which the History of the disease doth suggest unto us. Besides, if the Latex or serum be a concomitant of the blood; (as he sayes) How is it true that the disease was not seated in the veins? Is not the bloud there mixed with the Latex? If it were in the Serum, How are the Humours of the body free from infection? fince that is one of them. A Lawyer that should thus defend his client, would deserve to be cast over the barr: What your Baconical Experimentators may adjudge \_\_\_\_ Thomson unto, I know not: but no intelligent person can favour

The next point is, Whether the cure of the difease confisted in extream sweats? My Adversaries words are these; "You cavil at our Lord; because he sayes, Nature did strive to fend forth its virulency by an extream Sweat: whereas your beloved Authors tell you, all that recovered, were recovered by the continuance of a moderate sweat. This (say you) Experience and Observation taught them; but 'twas but Galenical, and e that may be certainly verified of you to be the Mistris of e Fools; for in alex counsesti: None but a pyrotechnist can cexplore as he ought healingly. I pray Sir, what but Na cture should strive to send forth the virulency? Doth not Hippocrates tell us what is infallible; Naturæ (i.e. e vitales spiritus) funt morborum medicatrices; which e you ought to imitate in deed, and not as you word it: then s the Quarrel would quickly be at an end betwixt us. But 'the Extream Sweat (is seems ) stumbles you: But why for in

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Chould that? An extream disease must have an extream remedy: This Hippocrates doth also dictate. In extre-'mis morbis extrema exquifite remedia funt optima. Malo nodo, malus cuneus. But let us know a little strictly what is meant by an Extream Sweat, and a moderate, in relation to this trucklent plague. The extream sweat (i.e. very large) was according to the story, mortal. The Moderate salutary. VV hich I deny, wala weiter if wald nope, quatenus mere Sweats: for, according to my Observation this \* twenty three years, all malignant pestilential Feavers, the Pest it self, and the Griping of the guts, which holds a fair proportion with the Sudor Anglicus, did all receive a most certain and expedite Cure, best by extream large · sweats, if the strength were kept up; otherwise no sweat, \* more or lest, is of any significant benefit. Quicquid fit virtute naturæ, fit άδρος κ λαβεώς, non autem πολυμεςώς. Whatsever Evacuation is attempted by Nature robust, directly supported, is performed plentifully, impetuously, and incontinently, not dribling by piece-meals.

In this discourse I shall pass by that ignorant comparison betwixt the Griping of the guts, and the Sweating-Sickness, betwixt which there is no affinity that I can learn: and perhaps Spigelius in his book about Semitertian feavers, may give the best account of that disease: 'tis one, I confess, I never saw, but I dare avow, tis not of the nature of the Sweating-sickness; though it may so happen, that the Griping of the Guts, as well as other diseases, may be not only malignant, but pestilential. He is a Baconical Philosopher, and therefore may write any thing. It is also observable, that I gave him no ground for that demand, Whether nature did not eject the virulency? and Whether we ought not to imitate Nature? No Galenist or sober Physician, did ever deny these things: and the latter affertion is that, on which all our practife is founded. 'Tis for the Virtuofi, who approve and talk of Commanding Medicaments, (which over-rule nature) to deny it? or for the followers of Van Helmont, who Description of the teaches

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teaches that 'tis an imbecillity of a Physician to attend on permit any Crisis or concoction of a disease. We are willing to be tryed by that Rule; yet not to be reconciled to Thomson. I must also take notice of the contempt which he expresseth for the Experience of the Galenists, in comparison of that of the Pyrotechnists: whereas very few of these Philosophers by fire, have so much judgment. as to make an gract experiment: But those of the others. are as certain and accurate (understand me notof all). as humane nature, and the mutability of humane affairs are capable of. I now come to the principal controversie, concerning the benefit of Extream sweats in this disease. I confess 'tis hard and strange in a Peripatetick, that I should be pressed with arguments against matter of fact: this is a weakness of judgment, faith Aristotle. But though nil the writers else do dissent from my Lord, Bacon herein, (and tis bruitish to call the credit of fo many attestations into dispute ) yet I shall shew some regard to the reasons alleaged. That the remedies of a disease must be as exquisitely extream, as is the disease it self, may, with some interpretations and restrictions pass: for there is a cantion to the contrary was as xxxxiores as es no egaler aysou opantegi. Extream evacuations are dangerous; and no man putteth the Life of his Patient, if the disease admit of any delay; which some plagues have done: so that there is judgment to be used, and observation, to warrant that practise, such as my. Adversary is not capable of. But however, this doth not specificate the remedy, or inform us whether we ought to bleed, or purge, or sweat, in extremity. A Squinancy or Apoplexy are extream diseases, yet no man in his mits, would in them rely upon the most potent sudorificks. So that I am obliged to defire my Adversary to apply that general propasition to his conclusion for violent sweats : for I cannot. But he sayes, that Extream smeats have been observed by him to be the most expedite cure for all malignant pestilential feavers, the pest it felf, and the Griping of the guts: and for this he alledgeth the Experience of twenty three years. Had our Au. ad an

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Author been one of those Rosicrucians, who pretend to have lived about three hundred years, his Experience concerning the Sweating-sickness, might have imported somewhat: but since he never saw that disease, nor hath had any tryals to cure it, 'tis most impertinently argued, that because some other malignant and pestilential diseases, the plague it felf, or Griping of the guts, are cur'd lo sometimes (for tis no more) with success, therefore the Sweating sickness ought to be so cured. I dare say, an hundred Galenists have taught us to cure the Plague by extream (weating. I shall only mention Sennertus, Petrus Paavo, Palmarius, Van der Heyden, Gardinius, Isbrandus d Diemerbrook. Concerning pestilential and malignant feavers, the affertion is false, or must be regulated by many considerations, before it can be admitted: As to the cure of the Griping of the Guts, I do not hear such a character from London, of his Cures thereof, or the luccels of his pepper-drops, to endear his Method unto me. But after all this, he concludes me by a third reason, which, if it were true, I would submit thereto. viz. What soever evacuation is attempted by Nature robust, directly supported, is performed plentifully, impetuously, and incontinently, not driblingly, by piece-meals. Therefore, fince the Sweating sickness was an effect of robust nature, ejecting the venome of the disease, the sweats must have been violent, and the Physicians ought to have procured such. But I cannot find any solidity in the Argument. Quicquid fit virtute Natura, fit adejus n λαβεως non autem πολυμερώς, Is no Aphorisme of Hippocrates, though you read it monumeens, nor true amongst Physicians. The Sweating sickness is an instance to the contrary; and so are those diseases which are terminated by a flow bleeding at the nose, which if sufficient to put an end to the disease, needs not to be impetuous. Neither is it necessary that all the evacuations of invigorated nature be extream: there is a practical rule in Hippocrates, which doth not direct us to much to the quanrity, as quality of what is evacuated, and the benefit

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Mippoer. feet. 1. aphor. 23.

Valle fin in. Aphor. 23. sett. 3.

Prosper Alpin. & morte,1.7. C.II.,

which the Patient finds upon it, and the frength with which he bears it. Que prodeunt, non sunt astimanda. multitudine, sed ut prodeant qualia oportet, & ferat facile. Those evacuations in morbid bodies, which are either produced by Art or Nature, are not so much to be judged of by their multitude, as by their being suitable to the disease, and beneficial to the parties. It is true, that small evacuations, as drops of blood from the nose, and spots in malignant and peftilential feavers, and small and partial sweats; are of a dangerous prognostick. Yet it is not fo necessary that the evacuation be great, as that it be appropriate to the disease, and well undergone by the Patient. For, let never so much come away (as in dejections de præsag. vita of sincere humours) yet if it be not such as the disease requireth, 'tis evil, if not pernicious: And if it be not undergone with frength and benefit to the patient, certainly the evacuation is prejudicial. But if those Humours. be evacuated, which are the cause of the disease, and the Patient bear it well, such evacuations are not hurtful: whether they be greater or lest: If they are lest, the benefit is lest, yet are they beneficial: and if they be greater, if the Patient bear them well, how great soever they be, they are not excessive. There are times when even critical evacuations call for our aid to moderate and abate them: that is, when they transcend the frength of the

patient; and the vital indication being alwayes urgent, we must not suffer the party to dye by his Cure, any more

than by his disease. But neither is it true alwayes, that

Nature operates thus violently; and there happen fre-

quent circumstances, in which the Physician ought not to.

correct her deficiency, but otherwise make the best be-

nefit he can of it: This happens in Symptomatical evacu-

ations, in discases t hat are of difficult judicature, where-

of, as some are no xious, and to be stopped; so some

are beneficial, yet not to be promoted: these give hopes of recovery, but of a flow one: and where it is apparent

that the disease will be worn o, worred o, slow and dif-

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ficile in its own nature, 'tis madnels to promote those fr. Valles in excretions, which may meaken nature, but not depel the method med. distemper: those small evacuations and otherwise unsea-depetel. 5. sonable, in such diseases, have their advantages, and they come which under them escape with difficulty and danger, would unavoidably perish mithout them. This is a known case in Physick, which to insist farther on, were to teach — Thomson the Dethod of Physick, which is not my present intention; I only recommend this to these Baconical Experimentators, that they would Anderstand before they sunge; which I am sure my Adversary.

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I have now fully and perspicuously replyed to all that He hath said in desence of the Lord Bason, which is the principal part of his book: I might leave the rest to be replied unto by Dr. Chr. Merret, as a more fitting I tagonist for him, than I am: the match being pretty equal betwixt them two. Yet I shall cursorily shew the ignorance of this man, in one other important passage of his Book.

He is pleased infinitely with talking of Van Helmont, p. 45%. as one that instructs in real entities; his philosophy is most veriloquous and Authentick. I shall take the liberty to tell him, that I esteem best of that Philosophy ( in reference to Physick) which is most useful and beneficial to the health of men; and this I desire to see: evidenced by practise: and I farther judge of an happy practise, not by the plausible reasons he gives, nor the pretty curiosities with which he fets off the preparation, or efficacy of his Medicaments; nor by the confidence with which he boasts his own performances; but by the esteem he gains in the world, and multitude of patients, who will refort unto him that doth the greatest cures: so sweet is life. But I! have assurance from those who knew and observed Van Helmont, that he was no great nor happy practitioner: and I am confirmed in this opinion, by what J. J. Becherus relates concerning him, who (though he have otherwife :

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otherwise some esteem for him, yet) reckons on him as an idle Theorist. " Concerning Van Helmont, I know 3. J. Becherus not well what to say: It is faid, that he could not cure a common feaver; and that he dyed of a burning feaver, because he would not make use of any Physician, whose faculty he had so reviled and contemned, choosing rather to dye helpless. Doctor Krafft [ one much celebrated by Becherus I told me, that being in Brustels, he enquired "after Van Helmont, and demanding of some persons which had lived long in the same street that he did, where his house was? they could not tell him, and protested they ' had never heard of his name: whereat he was surprized, as deeming it impossible, that a Physician, who, like another Æsculapius, performed so miraculous cures, and to whom multitudes might be presumed to resort, having 'tived so many years in one place, should not be so much as known to his next neighbours, amidft whom he had lived. Indeed many complain, that the Theory which he layes down. is not found in Practice to answer expectation, which hath occasioned the death of many Physicians and their Patients: as appeared in the late plague upon the Rhein, where a a dapper Priest and his brother, having by chance met with Helmont upon the Plague, they read it over so studiously, that they retained it all in their memory most exactly, and thought it was impossible but that the Practice would be Such as would justifie the Theory. From Holland they scame to the infected places, and defired leave to act the Physicians in the sure of the Plague: which having obtained, in a few dayes they both dyed. It is manifest hence, that many things may be with great plausibility dif-'puted by a subtile tongue, and wordish pen, but few apbear good upon Experience. As little is to be said in the behalf of Phedro, Scheunemannus, Severinus Danus, and Paracellus: and Henricus Lavaterus (and others) Thew-

H Lavarerus, eth, that the performances of Angelus Sala, (though one wie, adv. A. of the best of the Chymical practisers) did not gain him Salam, p.81. credit in Smitzerland, but that his famed extracts proved

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fatal to many persons of quality there. There is not any thing so lying as a Chymist; and the Medicines they boast of, and the Laboratories they talk of fo much, are commonly found to be delusory braggs. I shall not prove this out of Agyrto-mastix: nor insist upon it, that Mr. Odorde did pretend to as great Arcana as any of the Fraternity: God had been pleased to communicate unto him a Me-odorde's poor mans Physicithod in the plague, to preserve thousands from the grave, an, p. 89. which he promised to administer publickly and freely to all that should desire it. Tet did he and his wife dye thereof, in 1665. They will write books of Theories, Processes, and Medicaments, yet never make or try them. Thus Faber of Montpelier writ much in Chymistry, but most notorious untruths. An eminent person told Becherus, that being excited with the renown of the man, and a curiality in Chymistry, he went from Italy into France on purpose to converse with him; but could not find that he had so much as one Furnace, or was at all versed in the practice of Chymistry. So Agricola, who writ upon 3.7. Becherage Poppius, was put to publick shame by an Apothecary, for ubi suprawriting so many untruths. So that it behoveth the people to consider, not so much with what impudence a man vaunts himself ('tis an usual fign of a proportionable ignorance and imposture) but to examine rather, as I no, the solidity of their discourses, and efficacy of their Medicaments: 'tis not a casual cure that makes a man knowing: 'tis not a sudden alleviation, which lasts not long, and perhaps throws the Patient into a worse disease, or destroyes him in a short time, that argues the goodness of his Medicines. No, the constitutive qualities of a Physician. are skill in the real causes (or such as are as effectual as if they were so ) and the signs of diseases: the diagnosticks: and prognosticks, and a Method of curing ( authenticated ) by the History of Medicine) and Medicaments, such as the Experience of Sage practisers recommends unto us, ( to which end he must be well read in the History of the Materia Medica, and not let up with two or three praxes) thele :

(22)

these render him accomplish'd: He that understands Humane Nature best, and the operation of the non-natural and preternatural things upon it, is the person to be employed: not everry one that can proclaim a catalogue of dileales, ( which oftentimes are of necessity to be cured (everal wayes) and boast of effectual, pleasant, and universal medicaments, is to be regarded. Tis not the most acute, experimental Philosopher, that is the best practitioner: many Theoremes are plausible, which practice resutes: this was the death of Van Helmont; thus Des Cortes died in præf, scripti of a pleurisie, when, through a prejadicate novelty, he readv. Winichi- fused to be let blond. 'Tis not great ingenuity and parts employed in florid, or different studies, that make any man a competent judge of a disease, or the operation of a Medicament: The Lord Bacon is a great instance of this truth, and the instance of the Sweating-Sickness, convinceth us of the vanity of him, and the Comical wits, in their pretences to discourse of, or reform what they so little under stand.

I had thought to have profecuted some other points, by him agitated, and to have demonstrated the vanity of the courses he takes, and Medicines by him recommended: and to have vindicated the ancient Physick and Medicaments particularly, and given an Historical account of the inconveniences that have befallen this last Century, by reason of these Pseudo-physicians: but I have not leisure now to do it; nor is my Adversary so considerable, that I should take so much pains to expose him: what I have writ here, is enough to shew his intolerable ignorance and folly, and represent him as unfit to be entrusted with

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#### A POSTSCRIPT.

Think I cannot better conclude this Treatise, than by representing to \_\_\_\_\_ Thomson, that account which he himself gives elsewhere of the Swenting Sickness: for thereby it will appear, how out of an ambition to contradict me, he opposeth himself: yet is even that as little agreeable to truth, as 'tis to the relation of my Lord Bacon.

## G. 7. Of the true way of preserving the Blood, pag. 24.

"Here I cannot but make an animadversion upon that truculent disease which formerly raged in England, to the destruction of some thousands. It had its original un-'doubtedly from a degenerate Latex turned into a maclignant Ichor, which caused a tabefaction, or colliquation of the Blood and nutritive juyce, which issuing forth in a copious measure symptomatically, without any Eupho-what resem-'ria, or alleviation, quickly consumed the stock of life. blance is there The attempt made at first to cure this malady, by stop betwist this 'ping the sweat by astringents and cooling things, proved that of the \* not only frustraneous, but also very mortal, for the ma- Griping of the lignity being thereby more concentrated, wanting a Mo-Guis? mentaneous vent through the universal membrane, it forthwith preyed upon the Archæus, extinouishing the clamp of Life in such sort as a Mephitis, or subterraneous "damp doth obfuscate, and at length put out the flame of a Candle. Now the proper adequate remedies that took veffect in this feral evil, were Eustomachies, as likewise counterpoysons, that did immediately resist the venome by obliterating the Idæa thereof, by corroborating the enor-'men,

(24) mon, exterminating the intoxicated Ichor, and ill-condition'd Latex, through the habit of the body, carrying 'it that may quo natura vergere studebat.

This Baconical Philosopher here directly contradicts what he would feem to affert against me: viz. His Author and he say there, that the maß of bloud in the veins was not infected (for then there would have ensued spots and botches) but only the vital spirits. Whereas here he faith, that It had its original doubtless from a degenerate Latex, turned into a malignant Ichor, which caused a tabefaction, or colliquation of the blood and nutritive juyce. And undoubtedly he is deceived, in fixing the original of that disease in the Latex, whereas it depended, and had its beginning and being from a particular venome and corruption of the Air; for, notwithstanding that the unseasonableness of the preceding year, might have depraved the bodies of men, yet did both arise, spread, and cease fo suddenly, that 'tis evident its original and continuance was derived from another cause. Whereas he fayes it was Spunptomatical , 'tis a fign he understands not what he sayes: for symptomatical evacuations

medic. 1. 3. part.z. c. To. 1. 15. 0. 3.

Sennert. Inflit. ( at best ) are neither to be promoted, nor provoked, but only continued: whereas fuch as did not of themselves fweat, were to be forced in this case, to sweat moderately: Controv medic. otherwise they dyed. I prosess I do not know yet the nature of that disease, whereunto to reduce it, or how to speak of Prosper Alpiit, in the language of a Physician: they that saw it, were
nus de prasaging it, in the language of a physician: vita & worte, as much perplexed with the notion of it, as with the 1.6. c.3. Cure. That any Phytician did then go about to cure Indov. Septal. Cure. That any Phytician did then go about to cure Animadvers. it, as my Adversary reports, by stopping the sweat by 1.3 1ed. 60, adftringents and cooling things, is an attempt I cannot believe, till I see some good Author for to averr it: it being contrary to the most received rules of Medicine: And it is certain, that in England ( at least the first time) the cure is not faid to have been performed by Eustemachies and counterpoysons, that did immediately ob-

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literate the Idæa of the venome, corroborate the enormon, and exterminate the intexicated Ichon, and illconditioned Latex, through the habit of the body. For, the Patient was to lye fill during the whole twenty Th. Cogan's four hours, and to cast the clothes on him, as in no health, p. 273. ' wife to provoke the sweat, but so see temperately, that the sweat might distill out softly of its own accord, e and to abitain from all meat, if he might to long luffer chunger, and to take luke warm dink. — Out of With this relawhich, it is manifest, that they did not use such means do agree both tion of T. C's. as --- Thomson relates: and if small beer warmed Polidore Virmay pass for a cooler, the use thereof was more benefi-gil, Hollin-ibed, and Hall, cial than he will allow of. But whatfoever were their chro-Method at the first time of that sickness, in the timenicles of Henof Dr. Caius, (though they were cautious of giving any 14 7. thing, if the Patient did sweat, till some hours were past) vet did the Physicians use temperate cordials, but moderately given: and fuch as he would have termed fomewhat cooling, but that so powerful and prodigious effects as were then seen, ought not to give credit to Galenical Medicines: yet had they no other in those dapes, vulgarly used. In Germany, when the diseased party did not sweat, they gave them treacle. and other Galenical medicines to enforce them: when he did sweat, then did they give them manus Christi perlated, jelly of currants, berberies, and the like, mixed with the conserves of red roses, borrage, and marigolds; and if the patient could not refrain drink, then was such a Julep as this prefcribed:

R. Of the waters of Sorrel, Scabious, and Carduus Wierus observ. Benedictus, of each three ounces: of the Syrup of Sor-1.2, de sudore rel, and that of Syrup Citron-juyce, of each an ounce and an half. m.

This direction is irreconcileable to what my Adverfary writes: yet were such Galenical medicines effedual in that strange disease: And to see with what E 2 indisindiscretion this Pyrotechnist mentioned the cure of this distingue, one Tyengius was samous in Helland for his success therein, whose method is thus described.

#### Petr. Forrest. Observat. 1.6. obs. 8.

"Quod ad curationem attinet, & venasertionem, & purgationem, ab initio statim exhibebat; sed prorumpente sudore ab iis abstinebat, ne motum naturæ impediret: & magna cum laude (uti scripsit) utebatur tali potione;

R. Hordei mundati, florum nenupharis & violar. ana m. B. Carduiben. pimpinella, borragin. bugloß. paßul. enucleat, ana. p. j. ficuum numero decem, lentium excorticat. Zvij. lacca abluta & munda Zv. tragacanthi Ziij. Zedoaria, dictamni, rad. tormentilla ana Zj. f. decoctio in aqua nenupharis & bugloß. q. s. & post frigidationem exprimatur.

This potion (which these Mungrel Chymists would call a detestable shop-drench) did he give as a temperate cordial to his Patients, to allay their thirst, and gently continue the sweat: He gave it warm, causing them to suck frequently a few drops, or so, through a reed.

I have been more particular in this, to convince the Baconical Philosophers, how different Cures the Physicians in several Countries, were put upon in a disease which seemed to be uniform and the same, so that 'tis not the knowledge of the general Types of diseases, (I dare speak so, notwithstanding that Dr. C. M. called me surose-tuly ignorant for it; but 'twas he was so) nor the collecting of sundry receipts and Arcana, that accomplish a practitioner, but a more laborious study in the grounds of Medicine, skill in the diagnosticks, prognosticks, Method of curing, and the History of Epidemical diseases, and particular cases, together with the Experimental accounts of our Materia Medica, and the Art of compounding Medicaments

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oscasionally, which must perfect him in his profession. 'Tis to fuch the world hath been obliged in its extremities hitherto; and 'tis the felicity of our Nation, that the Colledge at London is composed of such, and such our Universities do breed: and were all the books in Europe to be consumed by fire, 'tis the works of such men I would intercede for, and rescue, whilst all those of the Lord Bacon, the Baconical Philosophers, and Van Helmont, should be consumed by the flames. .

There are other faults in this account of G. T's. that I might insist on, as, that the intoxicated Ichor should issue forth in a copious measure symptomatically, without any euphoria or alleviation: Which is absolutely false. For, though violent sweats were mortal, the more moderate, though copious, did not only alleviate, but recover the Patient, if all circumstances besides were duely observed. I might reflect upon the canting language and jargon which he useth: He that writes in that manner, does prudently, to dedicate his books to such as are not besitting Judges

of what they contain.

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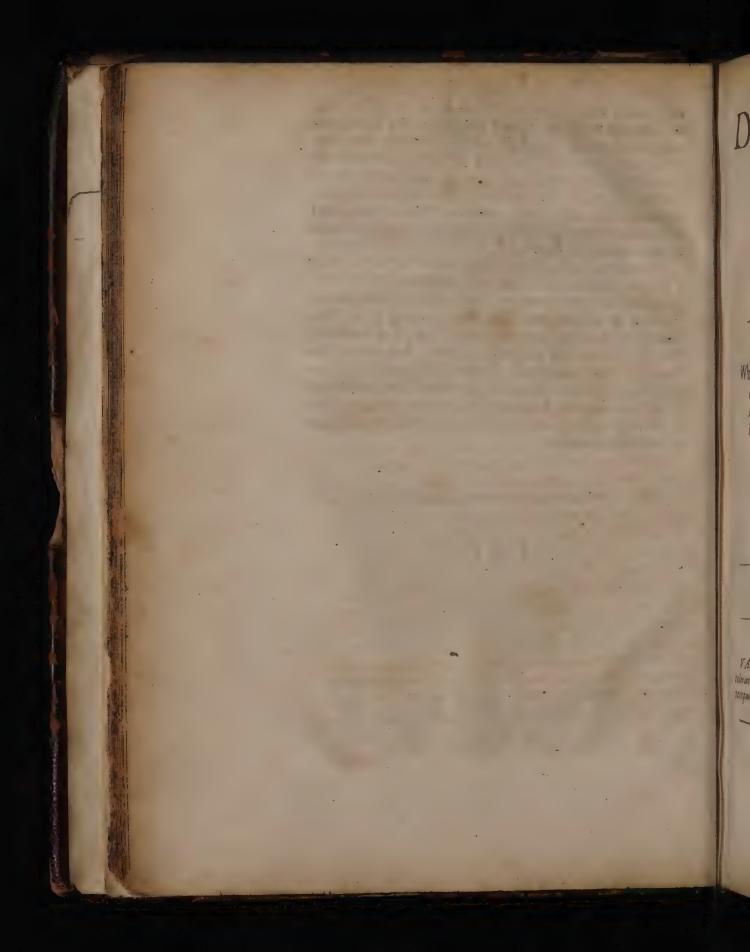
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AN EPISTOLARY

# DISCOURSE

CONCERNING

# Phlebotomy.

In Opposition to

—G. Thomson Pseudo-Chymist, a pretended Disciple of the Lord VERULAM.

Wherein the Nature of the Blood, and the effects of Blood-letting, are enquired into: and the practice thereof EXPERIMENTALLY justified (according as it is used by Judicious Physicians.)

In the Pest, and Pestilential diseases:
In the Small Pox:
In the Scurvey:
In Pleurisies:
And in several other diseases.

By HENRY STUBBE, Physician in Warwick.

Hippocrat. l. 1. Aph. 27

VASORUM inanitio si talis siat, qualis sieri debet, confert, & bene tolerant: sin minus, contra. Inspicere itaque oportet & regionem, & tempus, & atatem, & morbos, in quibus conveniat, aut non.

Printed in the Year MDCLXXI.

79/30/31/11/14

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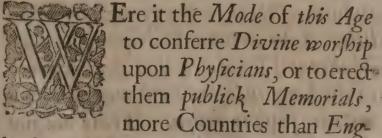
His most honoured friend,

Sir ALEXANDER FRASIER, Knight,

Principal Physician to His

## MAJESTY.

SIR



land would be your Joolaters, and beA 2 fides,

The Epistle Dedicatory.

fides what an infinite number of the Nobility and Gentry would bonour you with. our Koyal Sovereign would erect a Sta= tu? to you, as the Ancients did to Æsculapius and Higia, PRO SALUTE SUA ET SUORUM. 'Tis in your Happy Practise that we see what perfection great Learning and long Expeense can advance a consummate judge= ment unto: The most unlimited desires whereunto Ambition can transport any of our Faculty, are but to equal Doctor FRASIER. So much we may think of: So much we may wish for: But we must reckon those thoughts amongst our extravagancies, and despair as much of atchieving them, as the greatest impossibilities: I do avow it in despite of Envy, Malice and Ignorance, that the discovery of the Longitude, or North-west passage, is a more feasible design. These are not the customary Complements of a Dedica= tion:

### The Epistle Dedicatory.

tion: Whosoever apprehends that I can flatter, understands not me: and He is unacquainted with Your worth, who imagines Pou can be flattered herein. The judgment of the most intelligent Prince that ever swayed the English Scepter hath put an end to all suspicions of this nature; and His Illustrious Elogy hath rendered all Panegyriques needless unto you. I profess I should condemn my felf as intolerably criminal, should I surmise that any Address from me could add to Your Glory: But those who receive no Accessionals from our Applications, and Praises, do notwithstanding permit us thereby to testifie our Respects and Gratitude: And I beseech you to believe that the presumptuous Declarations of these Truths, is the result of those Sentiments. I esteem it amongst the peculiar Felicities of my Life, to have been favoured by a Person of so transcendent

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The Epistle Dedicatory.

dent Merit, and who disposeth not of his Kindness promiscuously: I am redevable unto You for some place in the regards of his Sacred Majesty, and for some Effects of his Royal Bounty: 'Twas the Character You gave of me, which procured me that Employment, in which I was designed HIS MA-JESTIES PHYSICIAN IN THE ISLAND OF 7A-MAICA. Sickness did there incapacitate me from acknowledging that Heroical Generosity of my Prince with any considerable Service; But I shall alwayes retain a due sense for what De hath done, as well as for what he hath parboned; and this shall ever be an incentive unto me so to qualifie my self, that I may be able to repay him all that Loyalty to my KING, and obligation to my PATRON can require. And allo no

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The Epistle Decatory.

Amidst these Protestations, give me leave to tell Sir ALEXANDER FRASIER, that I am not now so esloigned from the World, nor so sixed on my retirement, as that it is indifferent unto me whether De continue Me a place in Dis Demory: 'Tis certain You afford no room there to what is vulgar, and trivial: yet I cannot but beg to be indulged in the vanity of this request: and I assure You I bring no common inclinations to serve You, neither would I by ordinary Lestimonics express that passion wherewith I am,

Warwick Febr. 14.

SIR,

Your most humble and most devoted Servant;

Henry Stubbe.

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S 1 R,

N obedience to your Commands, I have read over the Treatise of --- Thomson, concerning Bloodletting: I never underwent a more difficult task in my life: And had the Virtuo si imagined with what reluctancy and constraint I should undertake such a work, they would have abandoned all their other fratagems, and imposed on me this pennance, as the most severe. I profess, I am not so understanding in the Greek, Latine, or English Tongues, as to comprehend his Language: yet I think I am not so much in default therein as He, who, according to the peculiar fate of the modern Baconists, hath either out-lived bis Learning, or never was endued with any. That He should pretend to read, or understand Dippocrates, is a vanity equal to that with which Ecebolius prosesseth himself to be versed in the writings of Aristotle: and when he blames the Method G. T. Vindicas which the Galenists have used above this fixteen hun Bacon. p. 35. dred years, would not one imagine that the birth and flourishing renown of Galen had preceded those Centuries: whereas you must place him in the second Century, during the Reign of Marcus Aurelius, Commodus, Pertinax, and Lacuna in vita Severus, or you will contradict the account which Galen Galeni. gives of himself, and the relations of other Historians. Is. Vossius de Philos. c. 12. and at such time as he arose, the world was prepossessed sed. 19. Suiwith Methodists and Empiricks. But I wilh his greatest das in voce errours Tanny.

errours lay in his ignorance of these things. Alas! he understands not any thing of the Rudiments of Physick; and to inform him, one must write an entire Body of Physick. Were it not for a few hard words borrowed from Van Helmont, such as Enormon, Archaus, Daumvirate, &c. and his extravagancies about fortifying the vital spirits. ejesting the venome, or spina in diseases, and that by a diaphoresis generally, by the means of certain Arcana,

Let D. M. take (more famous for the death than recovery of his patients) the man would have nothing to fay: And do we wonder. motice here, that there private Arcana, at the unfortunate cures for which he is blamed? or that more than one at white-chappel, should suffer by his illsuch as the send unto, con advised Pepper - Doups? Twere frange, should one that scaling the Me neither understands humane nature, nor the types, times, others by that motions, and terminations of diseases, should ever (except name published by accident) do any good; not that He should frequently do harm. But a foot may commit more faults than a wifer in Print, in Schroder, and man than I, and of more leifure, can discover. I shall confine my present address to the point of Phlebetomy; where-In his Preface in he fo traduceth the Hippocratical Physicians, as fo ma-

to the Reader, ny muttherers, and particularly declaimeth against he sayes, He the most judicious. Assembly of our Faculty, that Europe time will come, ever beheld; and who, if they be culpable, are mis-led yea, is not far by the practice and precepts of that Author Hippocrates, off, that a Phile-whom be himself often cites, and to less purpose than I botomist (as be bath chara- might in this controversie alledge him. Sterized him )

will be leeked upon a little better than a Broachoto it, a Cut-threas.

Some years fince, I defigned to write an enquiry into the original, and nature of the Blood, and the usefulness of Phlebetomy in several diseases: in which, abstracting from the single opinions of Writers, I purposed to illustrate each point by practical principles, and ample Histories, out of intelligent and creditable Physicians, concerning the bad or good success with which Blood hath been let in diseases, according to the several sees of the diseased, and the nature of their maladies, whether Epide-

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mical, Sporadical, or of a left general constitution. But the Controversies I have been involved in, have so incumbred me, that I have not been able to pursus these intentions, nor have I any preparations almost in order thereunto, as yet digested into writing. But this Antagonist requires not all my frength; a less powerful Affault will suffice to overthrow Him.

'Tis not any kindness to him, but indulgence to my felf, that I do not pursue all his errours, even in the generation of blood; or go about to convince him of the several mistakes which he is fallen into, for want of reading more modern Writers, and their discoveries. Beyond Helmont, or in contradiction to bim, the man neither does, nor will understand any thing: And even in that Author he seems so little conversant, that he sometimes mistakes him, and generally represents things with more obscurity and intricacy, then they are expressed in the originals of

Van Helmont or Grembs.

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Of those that have opposed Phlebotomy, these are not the first, which this Century hath produced: long ago Galen complained of Erasistratus, (the sisters son of Galen. de Aristotle) that he was autooos , fearful to let his Patients c. 2. blood; before him, Chrysippus Cnidius, Medius and Aristogenes, did reject the usage: Also Apamantes, together with Strato, are recorded to have contradicted the practice of Phlebotomy, by Arguments: The strength of that faction in Physick, was such at Rome, in those times, that Galen spent several books against the followers of Erasistratus upon this subject. But above all that eyer intermedled, I will give this character to ----Thomson, that never did any presume more upon so weak grounds: Nor ever was Confidence so poorly mounted, and so pittifully be-jaded.

After much trouble and enquiry, the fum of all, he

layes, in this case, amounts to this.

The promiscuous mass of Bloud which flows in the Veins and Arteries, he divides into three parts: the one A 2

is called by him the Lates; the fecond Cruor; the third

Sanguis, or most properly Blood.

G. 2h. of the

1bid. p. 22.

The Latex, so called by Helmont, by some Lympha, by Blood, p. 19, the Greeks paser, is a diaphanous clear liquor, amis, fabricated in the second digestion, by virtue of a ferment there residing. It is the inseperable companion of the Bloud, and closely perambulates with it through all the wandring Maandrous pipes in this Microcosme. It is the matter of Vrine, and Sweat, Spittle, &c. and renders se-

veral other considerable services to the body.

The goodness or pravity of the Latex, depends much upon the bloud, as it is constituted; for, albeit it is no essential part thereof, yet is it altered for better or worse, according to the channels it passeth through, the lodging it taketh up, and the condition of its affociate: notwithstanding that it may be sometimes impaired in its due excellency, and the bloud withall remain very pure and fincere.

Ibid. p. 1, 2; and 34.

The second part is called Cruor, from xiG, i.e. Crudus concretus: It is the more crude impure part of the bloud; the purer part of the chyle being digested into a faline juyce, is carried into the milky veffels, and veins, and mingling at last with that ruddy liquor, is called Cruor, and at last becomes perfect bloud. It undergoes manifold guises, and is often the subject matter of a multitude of diseases, being sometimes changed into an Ichor, Tabum, or Sanies.

Ibid. p. 2.

The third part is properly called Sanguis, or Bloud, nel' egoxin, it is a most pure sweet Homogeneous, Balsamie, Vital juyce ( for the most part of a bright Red, or Reddish colour) made by the Archaus, by virtue of ferments implanted in the ventricles of the heart, lungs, veins and arteries; causing a formal transmutation of the Ckyme, or milky substance into this sanguineous liquor, ordained to be the feat of Life, and and the principal matter for sense, motion, nutrition, accretion, and gemeration.

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It is for good reason ealled Balsamum, seu Condimentum totius corporis, forasmuch as it hath a sanative power, Some peoples sweetly uniting all the parts of the body, for the conspi- flesh will not the ration of the good of the whole.

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this Sanative quality in the Blood.

It is a great preservative against putresaction, as long as it remains in its integrity, for confifting of many saline particles, it seasoneth whatsoever it toucheth with a plea-glandules

Tet are feveral freeter to tafte, than the fan-

guineous, fleshly parts of Animals.

It is the proper habitation of the vital spirit, the immediate instrument of the soul, in which it shines, dis-what becomes playing its radiant beams every way, that sensation, mo- of the dumin tion, nutrition, and all other functions may be exquisite- And may I not ask, if the ly performed. Spirits be not

The immediate Instruments of the Soul?

God and Nature never intended other, then that the 16id. p. 5. blond should be Homogeneous, pure, plain, symbolical if God and with that single principle of the Universe. Now these Nuure intend-Peripatetick Philosophers deliver to the world, that the fo pure and hocontexture of this vital juyce is made up of Choler, Phlegm, inogeneous a Melancholy, and Blood, which united, produce this liquor; why compounded body, which we call Sanguis: How grofly produce man erroneous and dangerous this Tenet is, most Learned with such a fabrick, that Helmont hath made evident. the chyle (leveral ways tin-

ged) should mix with it in the sub-clavian veins?

Wherefore we conclude with that noble Philosopher, 1bid. p. 6. that Bloud is an Univocal substance, divisible only by some external accidental means, as the Air, or Fire, which cause a various texture, and different position of its Atomes, whereby it seems to consist of parts which are not really inherent in it, as is manifest in its degeneration from.

(6)

its native colour, Sapour, confistence, and goodness, which it had before it became corrupt in the pottinger, or underwent the torture of fire. Both of which do strangely larvate and disguise the puniceous Balsome, giving occasion to the Galenists to frame their four sictious humours, no where really existent.

This being the foundation of all his declamations against Phlebotomy, before I proceed any farther, it may feem requisite that I should make some Animadver-

fions thereon:

Th. Scheuck.

I might take much notice of, and display his errours, as to what he sayes, that the Latex is by the Greeks called set Deor: this is the first time I ever read it called so: c. Hofmann. the usual terms being oppos, ixwe, and syearin. The node Ichor, sett tion ( whatever Helmont say ) is not new at all: an hundred Galenists have mentioned and treated of it, as the de sero sangu. vehicle of the bloud and nourishment. But that cruor should come from xio, crudus concretus, is an opinion fingular to the Baconical Philosopher. That wow doth fignifie cold, I know well: and that cruor properly fignifies the the blond of dead people, or the mortified blond issuing from putrefied wounds, I no less understand; though Authors frequently confound it with Sanguis; But that his Latex, and the Lympha, so called by moderns, are the same, is news: for, it is not held that the Lympha, in its peculiar form, was pre-existent in the Arteries, and, as Gliffon de he- such, did accompany the Blood through the Maandrous

pate, C. 45. Charleton, Oc-pipes, but is generated as it is discharged into the Lymphaducts, and from them is re-mixed with the bloud: And, if ·cor. Anim. exercit. 9. it were, yet would not the definition of this Latex agree felt. 7. with it: for the Lympha is no inseparable companion of

the blintin; as appears by its peculiar vessels: it is seldome a Glisson. Aeint hepat. a diaphanous clear liquor, being commonly tinged with a fec. 45. veral colours, oftentimes whitish, sometimes yellow, or, Quippe tota hac Lympha,

mis experiencia, compertum eft, denfior, minusque pellucens, & interdam lastis instar albeftens, saliguando Suffava. & nonnunquam lorur a carnis fimilie. Vide Chartron, abi fupra.

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as it were stained with bloud. And whereas this Later is. devoid of all sensible qualities, those who have experimented the Lympha, do not find any such thing, but a variety of tafts: Nor is it true that the Serum which accompanies the Bloud is such a Latex as our Helmontian describes; it being never (to my taste) free from a salfuginous sapour, (though it retain that with a great Latitude) nor devoid of colour, so as to be clear and diaphanous: and 'tis very seldome seen, that the said Serum will not b coagulate, unless preternaturally ) upon agentle fire: b Centies facto fo that it is no more to be termed a Lates, than the whites experimento, of eggs beaten to the like fluidity: In like manner that in rum ipsum non the Lymphadults will coagulate, as Bartholin observes, modo leviter incrassani, sed and others.

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meum. H. Barbat. diff. de fangu. & fero. pag. 16. c Th. Bartholin, Spicilege p. 71, M. Bogdan apolog. adv. O. Rudbek. 1cct. 116.

As for the Cruor, that there are graduations of the Bloud, as to its crudity and impurity, is no doubt amongit the Galenists: and that it may oftentimes transcend the state of due maturation, and so become degenerate, is as easily granted, as that it should come short of its desired perfection; and when this Blood degenerates any way. into a Tabum, or sanious matter, I must tell him, that Aristotle and his followers acquainted us therewith, be vide Hofman, fore that Helmont was ever heard of, whole Cruor bred de Ichoribus, in the Liver, and distinct from the Blond, impregnated fect. 71, 8c. with vitality, is such a piece of non-sense, as ought not to be mentioned in this Age, but to Baconical Philosophers, who, not only connive at, but applaud any Hypothefis.

Concerning the Blood, when I read the Elogies he beflowes upon it, as the Seat of the Soul, by which sensation, motion, nutrition, generation, are performed; I thought upon the opinion of Aristotle, and his zealous sectators amongst the Physicians, who have denied all Animal spirits, fixed the principality of the Members in the Heart,

and from thence derived even the nerves. If G. T. will

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defend the generality of his Affertion, I assure him that Hofman, Van der Linden, and Harvey, will be more ferviceable to him than Van Helmont : But this confideration hath little influence upon the present Controversie: that which follows hath nothing of Truth in it: that the Pr. Willis de Bloud is an Homogeneous, pure body: for nothing homoge-Kerger. de fer- neous can ferment : But it is most evident, that the memat. sect. t. bloud is in a perpetual fermentation, and that it is such a liquor, as is constantly generating, constantly depurating, and constantly expending it self: so that nought but Imagination can represent unto us such a thing as pure bloud: and I hope the specious pretences of a Real Philosophy, will not terminate in Speculation and Phansie. When the bloud either naturally issues forth, or upon incision of a vein, it representeth unto us different Phanomena oftentimes in feveral porringers, and in the same porringer different substances; sometimes a supernatant gelatine, and mucus, a coagulated maß, confisting of thinner, and a leß fibrous crimson, and a grosser, and more blackish-red body. enterwoven with fibres (both which may be washed away from the fibrous part ) and a serous, fluid liquor, fometimes limbid, fometimes of a bilious, or other colour, in which the concreted mass of bloud doth float: All these, with other Phanomena, (in a great variety) are to be feen in the aforesaid cases: and even the Bloud of the E venus capitis same body, as it issues from several veins, furnisheth us uniquamia- with matter for different observations. Now in a liquor lem muccingi- so pure and Homogeneous, as our Disciple of the Lord Banem as peach-tem vidimus, con imagineth the Bloud to be, though we should suppose crebrius è ve- the Air to corrupt it, as it issues into, and settles in the nts brachit, e pottinger, yet would the corruption thereof be uniform: venis creberri- which, seeing it is not, I take it for demonstrated, that it me, Sin ma- is Heterogeneous: And that being granted, it matters not Mobius fun- whether the four humours ( so frequently mentioned by

ther they be the constitutive parts thereof, or whether it

dam. medic. de Physicians ) be actually or potentially in the blood: Whe-

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be one entire Liquor, made up of Heterogeneous parts, which, in the bodies of fundry individuals, produceth such Phanomena, as if it did consist of such Alimentary Humours, and degenerates occasionally into those others that are Excrementitious: In order to our practice, tis all one for it to be so, and to appear so: and our documents are nevertheless useful, though they seem not rigorously true. The Galenical Physicians are not herein agreed; nor is any man confined in his sentiments, about this subjett: Tis malapertness in this Bason-faced generation, to dispute these points, since the phanomena of diseases, and the operation of Medicaments doth correspond with this Hypothesis, and are as adequate thereunto, as humane, nature (which is not capable of an exact knowledge, and ought to acquiesce in what is useful) can adjust them, Nor is it any more of disparagement to Physick, that should be built upon so tottering a foundation, then that the Temple of Diana, one of the wonders of the world, should be situated upon a bogg.

Hitherto I have examined his preliminary discourse of the Blond, and its concomitant Latex, and have made it evident, that this person understands not what he afferts, not what he rejects: and indeed such is his ignorance, that after so much study, "having rolled every stone, and searched out every scruple, to be informed concerning the truth of the Galenick, and Helmontian way, p. 87. he understands neither Nature not the Galenists, nor Van' Helmont. I now come to examine his Arguments against Phlebotomy, which, if they be so weak and inconsiderable, as not to justifie so extraordinary an impudence, let him blame himself not me, who do not intend (if possible, in such a confused, obscure Treatise) to injure him to the recital wind a min such of his daison.

His first Argument against Phlebotomy.

"Had they but considered how this vital monsture p. 6,7. I the Blood ] ebbs and flows in goodness and pravity,

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supon slight accidental occasions of any exorbitant pal-'fions, as fear, sorrow, anger, &c. the manifold impresfions of the ambient Air, ill Diet, immoderate exercise, 'divers excessive evacuations, and long retention of any excrement: did they rightly understand how bleud, like Mercury, may be polymorphifed, and changed into different shapes, and at length be retroduced to the same ftate and condition, as when it was in its primitive effence: certainly then these Dogmatists would never be 'so forward to pierce poor man's skin, rashly let out and throw away that substantial support of life, foolilhly and falfely apprehending that to be totally corrupt, and deprived of what it was in its former being, and in no wise capable to be retrograde, and return to it self 'again; because it seems to their eyes when it appears abroad discoloured; invested with a contemptible apparel, as yellow, green white, blue, &c. - " suppofing it to be corrupt, and so unfitting to be retained within the verge of life. It is no fuch matter, I can maintain: for this superficial alteration proceeds from the Air, spoiling it of its pristine goodness, not that it was really corrupted in the vein. For the demonstration of this, I will undertake, upon forfeiture of a great penalty, to open the vein of a Cacochymic body, emitting about two or three ounces of the visible aforesaid degeenerate matter, then stopping the Orifice, make use of proper remedies to this Individual, whose habit I doubt not so to alter in the space of about a fortnight, that ono fuch putrid matter as they improperly call it, shall be found in any vein whatfoever opened; which may fully satisfie any sober enquirer after truth, that the corruption was never really existent in that, whilst it was in the vein, which, in so short a time is thus redintegra. cted: for Corruption being an absolute privation of that formal effence of the thing: and fith there is no retrogradation in this kind, that an Ens losing its form by disto-· lution, should assume it again, Nam a privatione ad habituma.

p. 18.

habitum non datur regressus: it infallibly follows, that this juyce thus restored, Technicus, by Art, was never truly corrupted, as they would have it. Hence it solutions, that the sair pretence of the Galeniss, that the juyce drawn out of the Patient, for smuch as it is corrupt in the porringer, is happily discharged: appears a mere imposture, contrived on purpose to stop the mouth of

This is the principal Argument which he hath against Phlebotomy; yet doth he so handle it, as that the onely evidence it carries with it, is, that the Author is a most

those who scruple and question Phlebotomy.

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It is very ignorantly done of him, to make as if the Galenists in general did let their Patients bloud, merely for a Cacochymy, or depravation of the bloud, as if it were a Rule amongst them, that Elhensvever the blood is depraved, viciated, and corrupted, it durt to be emitted by 19hlebotomp. Whereas there is not any tenet amongst them more general, then that Cacochymical bodies require purging; the Plethozick, or such as are in danger to be lurcharged with excess of blood, require Dhiebotomy; nor do they recede from this resolution, but in argent cases, and with deliberation: and many are so cautious herein, that if the bloud appear in the perringer to be of an evil colour, and very corrupt, they enjoyn us to Vallefius mez stop the vein presently, and not continue or repeat the eva-thod medend. cuation. I shall set down the words of Horatius Augenius. Hic vulgarium Medicorum error detegendus eft. Horat. Augen. Putant quo sanguis impurior fuerit, & à sua na-1.9. c. 24. tura megis alienus, eo plus detrahendum, & in hoc mirifice sibi placent, in vulgusque proponant admodum utilem factam fuisse vacuationem, quod corruptissimum pessimumque sanguinem vacuaverint. Tu vero cui in animo est humano ge-B2 The serve does by neri

neri prodesse, & Medicinam inculpate exercere' contra facies; quanto enim magis sanguinem videbis à propria natura discedere, tanto minorem quantitatem vacuabis, & aliquando (nisi copia urgeat cacochymiæ permista) à venæsectione prorsus abstincto. Nor is this the judgment of a single writer; hundreds are of the same opinion: the Learned L. Septalius Animady. Medic. l. 4. sect. 2. is of the same judgment. In sanguine detrahendo cavendum maxime, ne, quanto putriorens, & deterioris conditionis Sanguinem è vena profluere viderimus, tanto majorem quantitatem effluere sinamu: quod plurimos facere observamus: tali enim existente sanguine, & pauciores subesse spiritus constat, & vires facillime solent collabascere. Even Petrus Cafel. Galen and Avisen are alledged for it: And it ought with de abusu Phle- less reason to be objected in England, because our Physicians generally (as likewise are the Germans) seem bot. pag. 73. not so prodigal of the blond of their Patients, as to -make a Cacochymie, much leß, a Alagoogi, or total corruption of the sanguineous mass to be the proper indication for bleeding: nay, most that hold Blood-letting in great Diseases arising from Cacochymie, to be a necessary remedy, ( not indicated by the depravation of the bloud, but violence of the disease; ) they are cautious in the quantity which they take away, because in such an habit of body the Alex. Massaria strength of the patient is seldom great enough to bear much. Apolog. Lii. Out of which it is manifest, that what he sayes about disp. 114 c.14 the impurity of the bloud in the porringer, that its an excuse or imposture used by the calemit's in desence of Phlebotomy: it is a fiction of his own, not made use of directly

> alone, or total corruption of the mass of blond. A farther mistake it is in him, that he represents the Galenists as such pittiful fellows, that should not know but that each corruption of the bloud is incorrigible, and

> by any but the followers of Botallus: the rest will give

him other reasons for their practice, than a Cacochymie

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therefore let it out. It is true, that we do hold, that it is poffible for the bloud to be lovitiated, as to be incorrigible, and that one may affoon hope to fee the regress from a total privation, as it restored. This hath been observed in pestilenvial diseases sometimes, and in sphacelated parts: and perhaps I may be allowed to reckon as such, the bloud of that person in Fernelius, which was universally coagula- Fernel Plyficted in the veins; fo as to be taken out as twere branches log. 16. c. 7. of coral: And that woman's in the observations of Pache-River. obs. quus, whose bloud in a continual fever did issue out, upon communicate Phlebotomy, as cold as Ice, or Snow: the like to which, in obs. 46. the spotted fever is taken notice of, as a fatal prognostick by Petrus à Castro. If I tempius give me leave, I would Petr à Castro, reckon in putrid fevers, that blond to be incorrigibly de- lign. pag. 90. praved, which doth not congulate, and is destitute of its fibres, fince Fernelius and others effeem of such as an evi- Fernel. Theradent testimony of the highest putrefaction. It is also true, pent. Univ. that we do hold, that where diseases are ordinarily, or Sennert. de frequently curable, yet by accident from the idio-syncrasie febr. 1. 2. c, 1. of the patient, or some other intervening cause, the bloud may be continued in such a vitiated estate, as to be incorrigibly corrupted, and yet its essential form not loft; as in case of Cancers, Hypochondriacal and Scorbuical distempers, Seirrhosities of the Liver, Spleen, and Mesentery, Leprosies, knotted Gout, calculous indispositions, &c. 1 might mention other cases, but they relate not to the present controversie, and I have already said enough to shew the ignorance of this Baconist. To come nearer to the main matter; It is true, that we do hold, that in many distempers, as in the Scurvey, putrid Fever, and some others, the mass of bloud is so putrified and corrupted, that even that which is termed more stricktly Blood, is depraved fundry wayes: for, if the vessels that generate and convey the Chyle, and the Chyle it felf be corrupted, 'tis impossible but that which is produced and supplied daily out of the Chyle, should participate of it pravity, and so much the more in that they flow intimately commissed in the same Arteries and Veins : But that.

This he might have learned from Galen, in his Comment

that in such cases we hold the Blood to be so deprayed, as to have lost its formal effence totally and irrecoverably, is most notogiously faile: and any man may fee hence, that this Ignoramus understands not the Galenical way, but deserted it, before he had acquainted himself therewith. We do hold that the blood and associated humours may come to a partial putrefaction, and ver be recovered again: and 'tis this recovery and redinteupon Aphor, gration that we design by our practice, and if we cannot effect it totally, yet that we aim at, is, to concost the several humours, so that what there is of them that is alimentary, and agreeable to nature, may be mitified and retained, and the rest so digested, as that it may be with ease and safety ejected the body, and so the Mass of bloud regain its former lustre and amicableness: This being the grand intention of the received Method of Physick, 'tis one thing to debate whether blood-letting, practiced according to Art, (for we are not otherwise concerned in the Quarrel) be a suitable proper means to atchieve our purposes? And ansother, to fay, that we pierce poor mans skin, and rath-In throw away the support of life, out of a vain apprehension, that it is totally corrupt, and depraved of its former being, and no wife capable of being retrograde. This cannot be faid without an apparent injury unto us: We know the variety and fallaciousness of colours, and by our rules can well conjecture how far the Hamours are vitiated, what may be concocted in order to the nutriment and benefit of nature, and what maturated to a convenient ejectment; And we do utterly deny the consequence of this Argument, though we grant the Assumption: Viz.

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If the bloud be of such a nature that it may be recovered to its pristine colour and vigour, without Phlebotomy, then

ought not men to use Phlebotomy.

But the Bloud, like Mercury, may be polymorphised and changed into divers shapes, and at length be reduced to the same state and condition, as when it was in its primitive es sence. Ergo.

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The Assumption I can grant, but not where such a practitioner as G. T. is made use of. I doubt not but the followers of Erasistratus could effect it by their Fastings, Frictions, Bathes, and other remedies used by such judicious men: I grant, that robust nature doth daily produce such rectifications of the bloud, in many that make no use of a Physician: But as willing as I am to gratiste my Adversary, I should not yield thus much to Helmont, or such as practice with Arcana, and commanding Medicaments.

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To the sequele of the Major, I reply, that albeit that Nature may oftentimes do miracles, yet are not miracles to be presumed upon: It is possible for the fick to recover without any means, yet are means to be used; the omission thereof is imprudent, and criminal, but the use thereof (if the Physician be knowing and discreet) safe, and as secure as the condition of our mortality permits any thing to be: A few dayes or hours of the encreasing distemper will more impair the strength of the sick, than the loss of a little blood, which, in the condition it is, adds not to the vigour or nutriment of the diseased; the dammage will be easily repaired and perhaps all this nisety will be to no purpole, for. after a multitude of wexations (sometimes dangerous): symptomes, Nature may produce in the almost exchausted patient, a violent eruption of bloud, and thereby terminate that malady which might have been alleviated, or allayed: before. Fluxus sanguinis largi ex naribus solvunt multa, Hippoer. Epid. ut Heragoræ. Non agnoscebant medici. The Bloud for set. 1. 1. 2.2 which they are so sollicitous, Nature her self is not so carefultopreserve it, but that frequently in the beginning and progress of diseases, she alleviates her self by discharging it out of the nose, and that in greater quantities of more florid blood than the Lancet would take away: This evacuation is of all the most facile, the most easie to be regulated by the Physician (fince he can stop it when he will) and the most innocent in the beginning and increment of diseases. sense 1: Be underflood brondly, and priverty: sor ther

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"Sanguinis eruptiones & hæmorrhagiæ hanc habent medicis, par. 2. prærogativam præ aliis evacuationibus, quod ipsæ etic. 1. s. & cam in principio & in aliis temporibus, etiamsi non Francisc, Rubette Nocturn. adsint signa bonæ coctionis, possunt esse magis utiles, exercit. in Hi- quam aliæ evacuationes, quæ sere semper sunt malæ, ex ftor. Medic. eo quod sanguis semper per apertas partes fluunt, & exerc. 5. p. 98, et quou languis longuis languis longuis possible 'paratione & concoctione, sicut alii humores, qui per 'alias evacuationes excerni debent. In evacuatione, quæ per venas apertas fit, nullam merito expecta-Prosper Alpin. mus concoctionem; & hinc Medici secta vena in morde præsag. vita mus concectorion, de præsag. vita hinc & spon& morte, 1.7. bis acutis in principio mittunt sanguinem; hinc & spon-'tinæ sanguinis vacuationes bonæ erunt: Addatis, sanguinis eruptiones copiosas, nedum utiles fieri, propterea quod sanguis malus una excernatur, sed etiam quo-'niam ejusdem sanguinis evacuatio universum corpus refrigerat caloremque transpirabilem, & corpus difflabile facit. Quare hac ratione excretiones sanguinis optimæ erunt, quæ in statu apparent, plene cocto existente morbo, sed neque ea, quæ cum cruditatis signis fiunt, erunt plane abhorrendæ & timidæ. --- In fine, that prudence which obligeth us to self-preservation, obligeth us to the most probable courses in order thereunto: and What can seem more rational, than that which NATURE directs us unto, that whereby the so happily mitigates and concludes diseases, that which so many Ages have recommended unto us, and in the use vohereof, not only Dreece and Rome, but all Nations universally, as well barbarous Tivil are agreed and single Vi patation of the

And thus much shall suffice for an answer to his first Argument: I now proceed to the second | 129 25 11 12 1

of the wife and the contest of the contest of the "The Blood is the support of Life; and we are taught "by Divine Writ, that in the Blond, that Spiritus rubens his Life. ( liw od nedw it got a well to the) we have

. I answer, That the Scripture, in the places aimed at. cannot be understood literally, and properly: for then the words

words infer, that the Reasts have no other foul than the blond, Deut. 22. 23. onely be sure that thou eat not the bloud: for the bloud is the foul, and thou mayest not eat the foul with the flesh. Thus it runs in the Original, though our Translation renders it Life. And so Levit. 17, 10, 14. in which last place 'tis said, that the bloud is the foul of all flesh. Nay, in Genesis c. 9. v. 5. Concerning man, 'tis said, The bloud of your souls will I require. It remains then, that deserting the literal sense, we fly to some that is Analogical: And hence it is that most Divines take the word wus for Life. Thus Exod. 21. 23. Thou Shalt give life for life, is not incongruously rendred instead of Thou shall give soul for soul. Thus the Civil Lawyers frequently stile Loss of Life by the phrase of Anima amissio. But however these passages may be popularly current, yet in Phylosophy and Physick, when we would speak distinctly, and argue firmly, 'tis not to be allowed of for Truth, that the Blood, or Spiritus tubens, (as our Helmontian most non-sensically terms: for, as great a Pyrotechnist as he would feem, 'tis past his Art to demonstrate, that it is

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is Life: for Life is nothing else but the union of the foul scaliger de with, and its presence in the body: or, to declare it by its subtil. exercit. effects, 'tis the conservation of all those faculties and acti- Fernel. Phisioons which are proper to the animated creature; as Death is log. 1.5.0,16. the extinction of them. Out of which 'tis evident, that Blood is no more properly called Life, than 'tispossible for the Definition of Life to be acmodated to Blood: that is not at all. But since common discourse doth allow us often to fix the principal denomination upon the chief instruments; and that the Scripture explains it self, Levit. 17. 11. and what my Adversary in one place calls the LIFE, in another, he terms it, the principal support of

2 Spirit, or Chimically to educe a Spiritus rubens out of it)

Life: let us consider how far that is true: That the Blond is not so much as a part of the body, (but the Ali- valles. facr. philos. c. 5. ment thereof) is the affertion of most Authors; it is not p. 102. Fernel. continuous to the rest of the body, but floateth as Liquor in a Physiolog, 1,2.

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veffel: and in vulgar speech, no man takes the loss of blond for a mutilation, or dismembring: and there are sundry distempers and phanomena, which conclude in favour of the spirits, (or what is Analagous to them) and the Nerves, to affert their pre-eminence above the Blood, and its Vessels: and whatever may be faid concerning Generation; (which is very disputable) 'tis a certain mistake in our Helmontian, to make the Bloud the principal matter for sensation (whereas sanguine persons are not the greatest wits, and the senses are most quick in women during their lyings in, after a great effusion of bloud, as also in dying persons) or motion, which is not in paralytick members, though the Blond flow unto them continually, as it was wont before. I add, that there is not any convincing Argument to prove that the Bloud is animated: I confess the conjunction of the soul and Body, and operations consequent thereunto, are most mysterious unto me: and I think it no less true that our Life is a constant miracle, then that we are at first wonderfully framed: nor can I determine what particular use the soul makes of all the parts and ingredients of our humane bodies: But this appears unto us daily, that the conjunction betwixt the Dout and Blood, and the dependance of our Life thereon, is not so great, or intimate, as that upon the effusion of a little, no, nor of a great deal of the bloud, Death, or any debility, extraordinary and durable, should ensue unavoidably: and if it happen but sometimes, 'tis apparent thereby, that 'tis but accidental, and not a proper consequence of that effect: 'Tis manifest, that the operations of the Soul are not restrained to one determinate proportion of bloud in every body: nor to the same in any: albeit that there seem requisite in all Animals, that there be some bloud, or what is equipollent thereunto: 'Tis also manifest, that this Bloud, (for which some are so sollicitous) doth continually expend and waste it self in nutrition, (and that even the nourished parts are in a continualex. haustion) so that without supply, it would degenerate

Plempius fundam. medic. l. 2. c. I.

Botallus de Luigue mille. (19)

nish to little or nothing: as appears upon great fastings, and several diseases. Tis no less manifest, that upon great evacutions of bloud, by wounds, or otherwise, when the Bloud hath been so exhausted, that very little can be imagined to remain, yet in a few dayes the veins and arteries do fill again, it is it is and nature is so replenished and vigorated, that this loss seeds bloud seems not only as good, in order to the functions of life, but better, in order to health and strength, since the production of this last (in the end of diseases) is accompanied with convalescence, whereas the precedent did not

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Out of what hath been said, the Answer to this Objection is facile: viz. The Blood is not so the Cent and residence of the Soul, nor so absolutely necessary to Life (granting all that can be defired of us ) as that some of it may not be let out, without present danger, or irreparable detriment: so that, if the motives for Phlebotomy be cogent, or so probable, as to render the Action prudential, no difficulty can arise from this scruple. It is written in Deut. 24. 6. No man shall take the upper or nether milstone to pledge; for he taketh a man's life [or foul] to pledge. Here the milstone is called the life or foul of a man, as much, and as properly, as ever the Blood is any where else: But, though there be a probibition for a man to deprive his poor neighbour thereof, as of the support of his Life, yet undoubtedly none was ever interdicted by virtue of this precept, to help the distressed Miller to pick and needs his Mil-

His third Argument is this.

<sup>&</sup>quot;Moreover, one would think, it should put a stop top. 7. their prodigal, profuse bleeding, if they did but consider, with what difficulty Nature brings this Solar Liquor to perfection, how many hazards of becoming spurious and abortive, it passes through; how easily it is stained by an extraneous tincture; how often intermixed with some case thing

thing allogeneous and hostile to it; how many elaborate circulations, digestions, and refinings it undergoes, before it be throughly animated, and made fit for the right use of the immortal Soul.

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One would imagine by this Objection, that the Generation of the Bloud, were as difficult a work, and required as much of sollicitude, as the Philosophers stone; and that the least errour would disappoint the process, and eject the poor foul out of its tenement and mansion. But there is not any fuch thing; he that confiders the perpetual supply of Chyle, by the Ductus Thoracicus, and with how much ease it is transformed a great part into Blood, by the similar action of that which pre-existed in the veins, (together with the concurring aid of the Heart, and sanguiferous emunctory vessels; and the previous alterations in the stomach and intestines ) will imagine neither the produ-Etion of Bloud, nor the reparation of it, to be so tedious and hard a matter: Nor is it true, that the Bloud is fo easily statued with hostile tinstures, fince it is a liquor that is in perpetual depuration, and hath the convenience of so many out-lets to discharge it self by. Neither will every crudity, in the immature Chyle, or bloud, render the blood unfit for the use of the immortal soul: there is extraordinary, and unimaginable difference betwixt the bloud of one person and another, (as appears upon distillation, burning, and mixing it with other liquors) yet are all these within the latitude of Health, and with equal perfection, exercise the operations of Life: Nor doth every allogeneous mixture vitiate or deprave the blond; for the Chyle, Blond, and Fleso, retain some particles of the original food taken into the stomach: hence it is, that sheep fed with pease-straw (though as fat as others) yield a flesh differently tasted from other mutton: the like is to be observed in the feeding of other Animals generally: Nor is this more evident in other Animals, than 'tis in Men; for, not to mention those Medicaments, which, by the alteration

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tion they make in the Vrine, do demonstrate they have passed along, and been once mixed with the blond; as Cassia, Rhubarb, Annise-seeds, &c. " In fonticulis observa- Domin. de vi, quod si pracedente die aliquis allium aut cepam come- Anatom. c. 9. derit, pus quod in fonticulo est odorem allii aut cepa obtinebat : sanguis autem qui per fonticulum expurgatur, non nist per venas expurgari potest; unde possumus dicere, quod sanguis acutum odorem detinere possit. The like phanomenon is to be observed in wounds and alcers, which feel detriment, according to the various food and drink of the patient. Nay, in pleurisies, and other wounds, it hath Domin. de been taken notice of, that the purulent matter hath dif- Marchettis; charged it self by the veins, (re-mixing with the bloud) Param chiinto the intestines, and by urine. The Bloud of some per-rurg. 1. 16. fons in perfect health, hath been observed to Stink worse Simon Pauli than rotten eggs, even as it was issuing from the arm, de febt. maupon Phlebotomy; yet when it was cold, it did not Bink, lignis fect. 11. nor feemed to differ from the best blond, except that it was of a more beautiful red than is usual. I conclude therefore, that in this Argument many falsities are contained, and there is nothing of such force, as to deterr a prudent Physician, who understands the rules of his Art, and those cautions which are suggested to us in Phlebotomy, to let his Patient bloud, and emit some of this solar Liquor.

His fourth Argument.

"They should never attempt, year rather abhorr, top. 39,900 cenervate in the least, by the Lancet, the strength, with its correlative bloud and spirits, without which there is no hopes of attaining a desired Cure. For it is a most cestablished verity, taught by Hippocrates, that Natura funt morborum medicatrices, the most assured means of sanation, is to keep up the vital pillars, without which, all salls to ruine. So that Van Helmont is without controversie in the right, when he sayes, utcunque rem verteris, ignorantia plenum est procurata debilitatu sanare velle.

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\* velle. i. e. make the best you can thereof, It savours of 'gross ignorance, to assay to heal, by bringing one into a weak condition. And p. 84. de febr. Satis sit, satis ' fit Medico (faith the same Author) quod ager alioquin 'inexcusabili debilitate labascat, per morbum, medias, in-'appetentias, inquietudines, dolores, anxietates, vigilias, · sudores, &c. neque ideireo sidus auxiliator debet debilitatem addere debilitatibus; fraudulentum est sublevamen ' quod vena sectio affert; ejusque tam incertum est remedium quod nemo medentum hactenus aust polliceri sanationem 'inde futuram. One would think it is enough, and too much, for the poor fick man to be brought low with the disease, fasting, want of appetite, rostlesness, pains, anguish, watchings, sweatings; wherefore, in such a case, whosoever is a trusty supporter, ought in no wise 'to add weakness to weakness: all the succour the Lancet can afford is deceitful, and all the address thereby is of fuch uncertainty, that no Physician dare venture to make a promise of a perfett cure by this means, and to keep one from a relapse.

I must except against the authority of Van Helmont, in the case, as of a person whose credit is sufficiently taken off, by what I have alledged elsewhere: I must (a) à pas en not be concluded, but by the judgment of (a) underrusa neiven flanding practitioners: and in Physick, I must not allow ne Swis rai ve- him to have been an intelligent person; and it is notorimus emlend- ous, that he was a man of no practife, and conferu, wilany, quently no fitting judge of the efficacy and ineffican) mola moless cy of Medicaments. It is a saying in the Civil Law, Arist. Ethic. plus valet umbra experti senis, quam eloquentia juvenis: And those Philosophers, who would, upon certain prejupa, tract. de dicate opinions, and pretences of reason, determine of Mepeste.c.7.set. dicinal cases, are exploded even by Galen: nothing is firm Arif. 1.8. Phyl. in Physick, but what is confirmed by an happy experience: c.3.t,22.& 1 de and tis an imbecillity of judgment ( faith the great Stagiort. & inter. rite) to desert experience, and adhere to reason. If Hel-6.3.t.59. mont

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If Hel-

mont was neither conversant in the Experiments of others, nor did himself experiment the inconveniences of Phlebotomy, what doth his Affertion or Negation fignifie in the case? Besides, 'tis but a single testimony against the Experiments of judicious men in all Ages and Countries. As for his Reason, 'tis most infirm. We must not adde imbecillity to imbecillity: even this is notoriously false in Physick; for, by the same reason, we should not reduce them to a slender diet, no nor so much as sweat them; for after much (weating, every man feels himself weaker for the present; the same may be said of vomits and Emeto-cathurties (so much commended by my Adversary ) that, during their operation, they add to the imbecillity and sickness of the Patient: upon this reason, none might scarifie a Gangrene, cut of the sphacelated part, or make use of several vexatious operations in chirurgery. Besides, who would not allow us to create him a little trouble or meakness, (easie to be repaired) thereby to recover him from a greater evil? there are some times when the lesser of evils becomes eligible, and puts on the qualification of being Good: there are some times when we are directed Steph. Roderic. to cure one distemper by introducing another. But to pro- Castiens. quæ ceed; I do deny that Nature is debilitated by bleeding in c. 7, 8. diseases, if the rules of our Art be observed: for, we daily see, that after bleeding, Nature doth with more ease and speed discharge her self of the disease; and usually thereupon ensues signs of concoction in the urine, a pronity to sweat, and an inclination to solubility of body, and a more strong pulse: which, as they are our daily observation, so they do demonstrate, that Rature is not weakned thereby. Heretofore it was usual, after consideration of all due circumstances, to let the fick bleed, even till be swooned away: and that with very good success, in those Fevers called σύνοχοι. Sub que casu Hippocrates atque Fodde Lommit Galenus veniti non sunt, dones animus deficeret, semel us de curand. detrahere sanguinem. Quam ipsi rem ratione & experien-c.3. tia ducti tentaverunt. Profusa namque hac inanitione pri-

mum homo in contrarium agitur Statum, celerrime ex de feetu animi refrigeratus: post autem alvus subinde pro-With this opi-Lommius, doit rumpit, vel bilis ubertim evenitur, vel certe copiosis su-Citchus agree, c doribus corpus perfunditur, atque hinc alios protinus conde usu Phlebotingit convalescere; alios plurimum juvari. This they tom. 6.4. practiced in the beginning of such Fevers, and the practice did so far ennoble Galen, that 'twas proverbially faid of him, that He stabbed Fevers. He relates of himfelf, that he took away at once from a Patient six pound

181 THE 18

Galen-de fang. mist. c. 14.

of blood, and presently put an end to the Fever, the party not finding any diminution of his natural strength thereupon. But this kind of excessive Phlebotomy hath been long discontinued by Physicians, not that they could absolutely condemn it, but out of cautiousness, lest the ill success afterwards should be imputed unto them: yet some Countrey - surgeons do still continue it. I knew one in Warwicksbire, who would, in the beginning of any Fever, bleed the Patient thirty or forty ounces, or more, in case he did not fanit: and, really, with great success in rustick bodies. A Captain in the Parliament-Army affured me, that when the spotted fever was in the Camp, their Chirurgeon did, in the beginning of the distemper, bleed them till they fainted; then put them to bed, giving them a good Cordial, so they freat, and recovered prefently. He himself was served so; the Chirargeon bled him in the open field, the bloud fell on the ground, to the quantity (as he guessed) of a quart, when a Lipothimy approached, he put him to bed, and giving him a Cordial, he fell into a sweat, and was recovered perfeetly in very few dayes. There is no doubt but the pra-Etice was justifiable in men of a convenient habit of body to bear it, and where neither the climate, (which " oftenusu Phlebotom. times is particularly repugnant to large Phlebotomy ) nor c. 5. Rolfice: idiosynerasie, (which sometimes happens) or evil diet spen.c.4.sed,2. preceeding, or the particular malignity of the venenate disc. 11. b Rolfine. usi ense, not the prejudicate opinion of the people do contra-

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indicate. It hath authority from Hippocrates, Galen, Avicenna.

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genna, and many others : Nature doth seem to direct us thereunto, by her own excessive evacuations in that kind, by which diseases are frequently acted: and no eva- Dilea. Lustidan; cuation is to be accounted immoderate, which is bene- de venæ seficial. By this, and expurgation, even to Lipothymy, in 14. Artic. the first beginning of several diseases, men were cured presently, nor did the maladies proceed to those times which in the usual method they make their progress through. In my Exercitations against Dr. Sydenham (as yet unfinished) I have entreated largely of the several methods of curing, which I shall not now transcribe. As for that way of bleeding which is now generally in use (though practised with a great latitude in several Countries, and by several Physicians in the Same Countrey ) it is most manifest that if due circumstances beregarded, and all other medicaments dextes rously administred, it is so far from debilitating Nature, that it adds to its strength, mitigateth the present Symptomes, prevents the violence of the future, and concocteth the disease apparently. I will not undertake to justifie the demeanour of each particular Physician, any more than I will answer for their intellectuals and skill in Physick: It is not the reading of Sennertus and Riverius, with a little knowledge of the new discoveries in Anatomy, and a few Canting terms about Fermentation, texture of bodies, or fuch like knick-knacks and Conundrums of the novel Philosophers which accomplish a man for practice: These men will never come to be ranked with Vallesius, Mercatus, Fernelius, Duretus, Rondeletius, Massarius, Septalius, Claudinus, Crato, or Rulandus. If Experience be our Guide, let us inform our felves by the Histories of such as they have given us of Epidemical and pestilential diseases, and of particular cases, as also the cures, and following them let us come to practife, and, not deserting our own reason, let us be cautioned by them: These others for want of judgment to consider each circum-Deannes to or maker Rance

G. Fletcher's History of Ruffis, c. 28. Q. 279.

stance cannot make an Experiment, or relate it : whilest they extenuate the credit of the ancient and modern Phylicians that are not Innovators, (though more obferving and experimental than themselves ) they do it only to excuse their ignorance in that kind of Learning, and whatever they have of the Lord Bacon, they have this of the Ruffe in them, that they neither believe any thing that another man speaketh, nor speak any thing themselves worthy to be believed. For such as these, or any else that do not practise Phlebotomy according to the rales of Art, I cannot make any Apology: nor do I think that their errours ought to extend so far as to disparage all Physicians who demean themselves prudently and discretely: Notwithstanding all our care, some Patients will dye; no Physician can secure all men from what their frail condition hathsubjected them unto: If our Method and Medicaments be fuch as the general rules of Medicine, and an Experience generally happy do warrant, 'tis as much as can be expected from ws and the Imperial Laws allow of this defence, though they punish the immethodical and novel Experimentators, and the Ignorant. Sicut Medico imputari eventus mortalitatis non Rebet, ita quod per imperitiam commisit, imputari ei debet: pretextu enim humanæ fragilitatis delictum decipientis in periculo hominis innoxium esse non debet.

B. Zucchian Qu. Medico. legal: 1. 9. confil. 40.

Wide I. Franc. Ripio tract. de peste, c.7. \$ .54,65,78, 104.

To conclude this Argument, I fay, that although it often happens that diseases are cured by sole Phlebo-Valler. Meth. tomy: Evenit ut sapius missio sanguinis sola curatio-Med. l. 2.c.3: nem perficiat --- Misso sanguine sape sponte natura

expurgatur corpus alui profluvio, vomitu, aut sudore succedente-Yet no wise Artist will rely upon that alone, but with the addition of other auxiliary medicaments: Herein Spain and France are pretty well Sanguin.c. xx agreed: And as no wife man will undertake to cure Wallis, meth, by bleeding alone; so it is most foolishly done of our Helmontian to demand, or expect it, as he doth here.

Vide Riolan. de circulat. medend. 1.4. C. 2.

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## I come now to his fifth Argument.

The means to let out bad blood without re- Page 105,106, s moving the efficient cause thereof, is no direct method

of healing. Now Phlebotomy lets out bad blood without reo moving the efficient cause thereof. Ergo, Phleboto-

my is no direct Method of healing.

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The Major is proved thus: Whatsoever suffers the cause to remain, can never remove the effect: For manente causa manet effectus.

Now Phlebotomy suffers the cause to remain, Ergo,

c it can never remove the effect.

The Minor is made good by frequent experience: If the canse of bad blood were cut off, the Feaver or Scorbute depending (according to Dr. Willis) upon the degeneration, Sal and Sulph. therein, would quickly ceale: but we plainly fee the contrary; for 'after the veins are much depleted, the disease becomes more truculent, and oftentimes mortal; which could never be if this depraved blood were any other than a product or an effect of an effential morbifick The same agent which in sanity sanguisies regularly without any confiderable defection, in fickenels becomes exorbitant, lending out a vitious juyce into all parts: beit good or bad, it still springs from a root, which continually feeds the branches: fo that it cannot be other than great folly and wrong to the Patient, to let out that juyce, though it seem never o fo corrupt, when another of the like condition must eneeds enter into its place, derived from the shop the duumvirate, where it first receives a previous rudiment, which ought in all reason rather to be reformed, than to give vent to those easily evanid particles inseparably joyned with this ruddy liquor, how ill soever represented. If all contained in the reins (luppoled He should rather have regarded the ecoud then finth digesti-

c (supposed to be corrupt) were discharged, yet as solve long as the ferments principally of the sirst and sixth digestion deviate from their right scope, there would in a short space be a succedaneous repletion of a matter equally contemptible, yea worse, in respect of an enervation of strength, than before.

This Argument, though our Helmontian rely fo much

upon it, is a pure Paralogisme.

First, He supposeth that we use Phlebotomy in all diseases, as a direct method of healing: which is not true except in some maladies, as Apoplexies, Squinancies, Hamorraghier or great eruptions of blood, some Atrophies, and sometimes in Feavers: in which 'tis frequent with us, to rely solely or principally upon Phlebotomy: yet even here we would think it very improper to admit of our Phlehotomy to be stiled our direct Dethod of curing, because it is but a part of our Method, which will include, if not some other prescriptions, yet at least byet. In many cases we use Phlebosomy as one part of our Method, but not as the principal: as when we use it antecedently to other remedies Pharmaceutical and dietetical, to prepare way for, or facilitate their happy operation. I am not now to write Institutions in Physick for the documentising of this Disciple of my Lord Bacon, 'tis enough that he may learn any where almost (as in Vallesius, Mercatus, Claudinus, and Plempius) that we propose more than one scope to our selves in Blood-letting; neither is it ever (except in diseases arising from a partial or total Plethora) our direct method of healing: If it be but a part and necessary or useful part thereof, we are Sufficiently justified. Thus his Major is enervated: for if he would have opposed the modern practife, he ought to have urged it thus.

The means used to let out bad blood without removing the efficient cause thereof, is no direct Me-

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c thereof. This is manifeltly falle, as I shall shew anon. As to his Minor, That Phlebotomy lets out bad bloud without removing the efficient cause thereof. This would the Ancients deny, who bled their Patients in many cases until they swooned or fainted, with great success: and we must say it is not absolutely true, there being no Practitioner (Ibelieve) but hath seen some cases in which fole Phlebotomy hath effected the cure: he may fee many Instances of this in Botallus, and that in diseafes where the body was undoubtedly cacochymical: I have feen Agues tertian and anomalous perfectly cured with once bleeding in women with child: and in children I have seen some Atrophies so cured, that the principal cause of their recovery was to be attributed to their Bleeding: the like I have observed in several Chronical diseases, even in inveterate quartanes: as also others have done: nor is there any thing more. common almost in our Cases, than the relation of several diseases absolutely cured by single Phlebotomy; which I shall not transcribe here, but in my large discourse of Phlebotomy (in Latine) I intend to reprefent all such cases at large, with their circumstances. and the History of Phlebotomy with all that variety of success, which judicious Practitioners relate of it in several diseases, and persons. I add now, that Roman can be an accomplished practitioner who is not berfed in the Villozy of Diseases, and particular cures: for the general rules and directions make no more a Physician, than such a knowledge in Law would do a Lawyer; the res judicata import more with us than they do in Law cases; and as Reports of the Judges in special cases must be known by a compleat Lawyer, so must our Book-cases be our presidents, and regulate our practise. Duobus enim tanquam cruribus innititur Brune Scidos Medicina, neque solis theoreticis rationibus contenta, in incurabit. [uper p. 57.

Super etiam practicas expenienties particularium requirit.

& indefessam ad singulos casus intentionem.

Thus is his Minor false, as was his other Proposition: and it should have run thus. But Phlebotomy lets out the bad blood Without removing the efficient

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cause thereof, or conducing thereunto.

But he proceeds to defend the Minor thus. If the Canfe of bad blood were removed, then would the effect cease: but oftentimes we see that notwithstanding such a depletion the disease continues, and if it be not mortal, yet it becomes more truculent. Here he commits the same errour that before, expecting a greater effect from Phlebotomy than we propose generally to our selves in it: we do it sometimes for revulsion of the matter flowing to any part, as in some Pleuristes, Squinancies, the Colick Bilious, and Rheumatismes, &c. wherein we never rely folely upon bleeding, and though oftentimes the effect transcend our expectation, yet do we not presume upon it. Sometimes we let blood for prevention of future diseases, as in great contusions and wounds: Sometimes we let blood only to prepare way Valles, meth. for future Pharmacy, " Ita plerumque in febribus mitmedend. 1.2.] c titur sanguis, qui non superat naturalem mensuram, neque simpliciter neque in hoc homine, sed quia niss mittatur, ob febrilem calorem, qui adest, & succorum e putrescentium mistionem, corrumperetur, ac fortasse maligne; & cutis rarefactioni, & ventilationi, & vasorum relaxationi ad futuram expurgationem nes cessaria, impedimento esset. Itaque mittitur, non quia multa subest copia, sed quia ea quæ subest, tunc est insutilis. & noxia, ac proinde, facultate ferente deponene da, etsi causa morbi non inclinet ad ideam sanguinis. 'modo non ab ea plurimum evariet, i. e. Thus in feavers we usually let blood, not that the blood abounds above its' due proportion, either in general, or in reference to this or that individual; but because the blood which flows in the veins is infected with a feavourish heat,

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heat, and would be corrupted thereupon, and by reason of the intermixed humours now inclined to putrefaction, and that perhaps joyned with malignity, for the prevention thereof, and least that plenitude and depravation of the Blood should hinder that transpiration in the habit of the body, ventilation of the blood, and laxity in the vessels, which is requisite for the subsequent purge, do we use Phlebotomy: not imagining that there is any superfluous abundance of blood, but that there is then in the body some that may well be spared, and which, if the Patient bath strength to bear it, may with prudence be let out to prevent so great dangers as are imminent, and to fecure unto us the good effect of the subsequent Physick. And if the disease do sometimes encrease upon Phlebotomy, it behoveth wise persons to distinguish whether those symptomes happen by reason of bleeding, or only succeed it in course, the disease being in its increment: for this makes a great difference in the case: as also whether amidst those symptomes (which are in due course most violent in the progress and state of the disease; whereas we bleed usually in the beginning only) there be not some that yield signs of concottion and melioration, which if they do, as we may justly attribute those hopeful confequences in part to Phlebotomy, so we need not be amazed at the present truculency of the disease; which affrights none but the ignorant: If notwithstanding all our care, and due administration of Medicaments according to Art, the Patient do dye, yet is neither Phlebotomy nor the other Physick to be blamed, but we ought rather to reflect upon Physick, that'tis a conjectural skill in the most knowing men, and that we are not as Gods to inspect into the bowels and secret causes of diseases, that besides the special judgment of Godupon particular persons, all diseases are not curable in all individuals, either by reason of the variety of distempers complicated, which interfere with and contra-

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contra-indicate one to the other, or for some unknown idiosyncrasy, or other intervening cause which defeats our Methods, as well as it disappoints the greanum of pepper-drops. I must here take an occasion to remind this Helmontian, that he doth ill to disparage Phlebotomy, by reason that after it there may follow some truculent Symptomes, and yet to reject that imputation where his Dietetical rules are in dispute. "When he Valles. in Hip- c gives his vinous and spirituous liquors in Feavers (a practise not peculiar to the Helmontians, but allowed, with regard to due circumstances, by Hippocrates not only in diaries but acute-feavers: so Galen would have told this Ignoramus) if any seemingly frightful Symptomes appear, as extraordinary heat, an inquietude, a little raving, a swerving from right reason, the Patient must not be startled in a vulgar manner, but be satisfied that these are but the effects or fruits of an Hormetick motion in the Spirits excited and increased by good liquors, easily united with them for the routing and putting to flight every way what-6 foever doth disturbits vital government. Though Hippocrates lay it is good in all diseases, that the Patient retain his senses; though he reckon inquietude and restlessness in the lick amongst evil signs, yet our Helmontian dissents from him whatever time of the disease it be, and whatsoever other circumstances attend thereon: "For oftentimes madness, deviation from the right understanding, a Lethargical or sleepy dispofition suddenly break forth. Nihil est quod tam "magnifice prodest quod non aliquo ex modo obest. What matters it, if the heat be magnified (besides the e main purpose) to some small trouble, if ten times e greater benefit accrue to the fick. It is impossible any 'Physician should perform his duty as he ought, if he boggle at the foppery of heat and cold, meerly momentaeny and transient, often deluding our senses. Surely be that is thus negligent of the Animal faculty in its principal

P. 168,169: pocr. de victu in morb. anot. 1. 3.

10. 169.

principal operations, may bear with a pitiful Galenist for not regarding much the loco-motive strength, whilst he is as follicitous as any Helmontian to support the vitals: and let any one judge which is most likely to impair the vital faculty, a little blood-letting duly administred, or such an increase of the feavourish heat, restlessness, deliriums, phrensies, lethargies, as our Author

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I must not yet dismiss him: not that I intend to laugh at his fix-fold digestion (he-might as well make a dosen of digestions) but it is necessary that I tell him that the production of good or evil blood doth alwayes depend upon one root that feeds the branches: for 'tis possible that the stomack, and pancreatick, or bilious mixtures in the guts may not be faultless, and yet the blood of the Patient either not vitiated, the errors of the first concoction being amended by the primigenial Sanguifying Blood (for 'tis the Blood in the vessels Bollonism Epis which principally sanguistes) or if it be depraved, yet dem. ephenot so as to generate any disease, or abbreviate the merid. l. i. life: for cacochymical persons with a little can live more long, and more free from diseases than those of a purer and more generous blood: Nor is it less true that oftentimes it happens that the blood is infected with recrementitious, heterogeneous and noxious mixtures from obstruction of the pores, or other occasional causes, wherein the stomach and vitals (otherwise sound and vegete) are only oppressed and distempered by accident, some of those impure humours being discharged upon them: and in these cases repeated Phlebotomy alone may cure: If the credit of Botallus will not fa- vide Riolan. tissie him herein, let him believe his beloved Hippocra- de circulat, tes, a man who did extraordinarily practife blood-letting, to as that the French do impatronile him to their Phlebotomy; he tells us this story. " A certain man s amongst the Oenieda was sick when he was fasting, he Hippocrat. felt as it were a great suction in his flomach, and a vio- Epidem. 1.5.

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elent pain: and after he had eaten any meat, as it die gested, his pains returned, He grew very tabid, and wasted away in his body; his food yielding him no suftee nance, but what he took came away in ill-concocted e and adust stools. But when he had newly taken any su-· stenance, at that instant he felt none of that vexatious pain and suction: He took for it all manner of Phy-· fick, both emeretics and cathartics; but without any alleviation. But being let blood alternately in each arms ( or hand ) till he had none left in his body [ that was vitious ] he amended upon it, and was perfectly cured. TEGHT THE XI. Read but that case you that are so timorous, with the Comment of Van der Linden in his Selecta Medica c.xiii. and tell me if upon Phlebotomy as ill blood alwayes sucemmadyn To ceed as is let out. I could add more parallel stories: But to demonstrate unto this Pyrotechnist that single Phlebotomy will amend and inrich the mass of Blood, I propose this case, An ancient Gentlewoman of a very strong and corpulent habit of body, but frequently troubled with hysterical and hypochondriacal vapours, was taken with a violent catarrhupon her stomach, together with great pains in her right and left hypochondria, as if the liver and spleen had been tumified: sometimes she complained of an insupportable acidity in her stomach, and sometimes a saline humour molested ber : Sometimes she fell into cold clammy sweats, sometimes ber sweats were so bot that she complained as if her skin were burnt: and even when her stomach felt any alleviation, she complained of a burning fire as it were in her bowels near and in the region of her liver: a perpetual sputation did follow her. I being sent for after several Medicaments prescribed methodically, but with little or no alleviation, I proposed earnestly that she should be let blood, notwithstanding she were above sixty years old: I took away eight ounces or more: She found immediate alleviation: there seeming no default in the blood or serum, I burned the blood in an arched fire, it came to ignition, but flamed 2018

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not at all: but crackled like Bay-salt, and after some while a sudden eruption of ventosity made such a noise as equalled the cracking of a Chesnut in the fire: she took a stomack-powder of Ivory, Pearl, Crabs-eyes, &c. and was pretty well for three or four dayes, but upon a small fright relapsed: I bled her again as before, and in that short time (in which she had taken very little sustenance; but behold this blood (which looked no betier than the other) did burn with a vivid and lasting slame as well as any I ever tryed in my life, and without any fign of flatulency: She recovered presently after with some further Medicaments, but not so as to be perfectly well at stomach of long time. I doubt not but if others would try that way of burning blood, they would foon be convinced that Phlebotomy makes a great alteration therein.

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## But I proceed to his other Argument.

This is taken out of Van Helmont, whose Latine p.107,103; words I shall not transcribe now, but only the Eng-

\*\*Contradiction, that a Feaver hath the property to pol\*\*lute the blood, and that this property can be taken away
\*\*a posteriori, by a posterous manner, to wit, by with\*\*drawing what is putrissed. For if first the fouler blood
\*\*be let out, they open a vein again: all this while they
\*\*coverthrow and confound the strength, and so there\*\*by wholly disappoint a Criss. But suppose some\*\*times a fresh ruddy blood run out, they presently cry
\*\*as cock-sure, that a whole troop of diseases is cut off
\*\*at the first dash, as if the resting place of the Feaver
\*\*did only extend from the heart to the bending of
\*\*the arm, and the good blood did take up its abode

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This Argument proceeds upon a most gross falshood in that part of it, where me are supposed to place such a value upon the colour of the blood as by the goodness or ruddiness thereof we should esteem our selves as cock-fure that a whole troop of diseases is cut off at the first dash: whereas no intelligent Physician ever thought so: for me do say that the blood of all men is dem,l.2.p.191 not alike, neither as to colour nor confistence naturally: and therefore in diseases we do not expect to see such, nor intend to make any alteration to fuch a degree as transcends the natural estate of the body: for 'tis our business to preserve each man his natural habit, beit bilious, melancholy, or phlegmatick. We do also fay that in difeases the blood may be corrupted in its substance and vitiated, and yet the colour amended, or Bollonim Epin not altered. Sape ad speciem & visum purus est sanquis, qui alioqui To San kois malus est: ut contra impurus cernitur specie, qui non ita vi on cola malus est. And Jacob. Thevart his scholiast doth observe, that several times in wwxpools sanguis laudabilis ipsa sectione apparet, & qualitatibus alienis præditus est, est enim acriusculus & biliosus nimis. Nay we are so far indefinitely from pronouncing a cure upon the ruddy colour of the blood, that in malignant Feavers we make a quite contrary prognostick. Pessimum fignum est sin febre maligna puncticulari ] & timoris plenum, cum lig.puncticul. sanguis vena scissaextrahitur, se purus, rubicundus, & inculpatus educatur, venenositatem superare indicium eft, aut putredinem in penitioribus cordis latitare. In meipso olim observarem; nam ter per hanc febrem misso sanguine, nulla prorsus nota putredinis apparebat, aliis fignis immani ferocitate sevientibus. The same is afferted and illustrated by fatal instances in Simon Pauli, which it would be too long to transcribe here. Having demonstrated unto him these errors. I say further that we do not hold the blood to be putrified in all Feavers, as in Diaries, nor (many of us) in intermit-

dem.l.2. p 192

Ballonius Epi-

Bollen, Epid. 1.2. p. 167.

Petrus o Coffro de febre map. 90.

Simon Pauli digress, de febr. malign. Sa 12: 14.

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TMilfent : tent: not to mention others: and in those Feavers. wherein 'tis said the Blood doth putrisie, We do let blood often to prevent putrefaction, and not alwayes to cure it by Phlebotomy: and we do it in order to cure the. putrefaction, we do not pretend to emit all the putrified blood thereby, but only to alleviate nature of a part thereof, that so she may better overcome the rest; especially being affisted by other Medicaments. So that, the whole aftertion is false, if it import that any intelligent Phylician designs to cure a putrid Feaver solely. and Directly by letting out the putrid blood by repeated venæ section. I will not deny but some in France and spain have gone about to do it, but the practife is generally condemned by Physicians of the best repute, and therefore ought no more to be charged on us, espe- Valles. meth. cially in England, then the miscarriages of any bold Ex-medend. 1. 4. perimentor, or Baconical practitioner at London upon the c. 2 Colledge of Physicians. This insolent Disciple of my Castellia de abusu venz-Lord Bacon understands not the rudiments of our Phy- section.p.60. fick, nor knows what we aim at in the use of Phlebotomy, there being sundry occasions why we use it, and sundry effects that we expect from it. Neither is he less deceived in saying that Phlebotomy (duly adminifired) overthrows the Strength of the Patient (I mean that strength which is necessary to the concoction of the disease) and so thereby wholly disappoints the Crifis. For it is manifest that by those profuse Phlebotomies of the Ancients the Crises were accelerated: and in ours promoted. This is not only manifest out of Hippocrates and Galen, but confirmed unto us by the certain experience of Forrestus, and those learned Flo-Forrest. de serentine Phylicians who compoled the Academy there brel. 12. in for the renewing of the Hippocratical and Galenical Scholio, Method in opposition to the most prevalent abicen= Nova Acad. nills. " Nos igitur Galeno fisi ( quoniam sic con- Florentina ducit magis, dum vires ferant) sanguinem missimus opuscula plurimum, nam bilibre pondus & trilibre in acutis adv. Avicem. febribus : P.43, & p.55,

Ibid. p. 99.

febribus: aut magnis aliis morbis superavimus: atque c id non modo impune, sed & tanta agrorum tolerantia. ent nil supra eligi potnerit. - . Quam rem abune de nobiscum experientia nosti (ut nos quoque aliquan. ctisper experientiam oftentemus) ut qui præter cætera, e quorum Paulo ante mentio fuit, & venæ quoque sectione c abunde ust sumus, atque id citra discrimen: quin et exactamillam vivendi formulam, veteribus quidem fa-4 miliorem neotericis vero ne nomine quidem ipso notam, "instituimus. Quo factumest, ut jam crises multa apopareant, ac velut novus natura ordo, agris falicissime faveat: Cum antebac vel pharmacis agitata; velinteme pestivo victu impedita, nullas ostenderet, aut admodum craras easque non nistinrusticis atque infima plebe, qui enec pharmacorum multitudine, neque ciborum aut potioenum, fatigari, aut impediri quirent. I have more willingly cited this passage because the renown of that Academy was fuch that it gave a check to the grandieur and prevalence of the Arabian Method, and the truth of what they say cannot be questioned by any that. knows the persons, and the revolution they brought about in Europe: and hence we may learn the reason of that difference which seems frequently to occur betwixt the ancient diseases and their critical motions and terminations, and what we generally find: It ariseth not from any such great change in the nature and types of maladies, as some have ignorantly writ of late: nor as this Bacon-face talks, because we reiterate moderate Phlebotomy: but because we do not follow at all the Method of Hippocrates and Galen in the curing of difeases: However we pass for Galenists and Hippocratical Physicians, yet in truth we are not such: our practise is made up most out of the Arabian Method, and Medicaments, and is a mixture of the Grecian and Sarracenical Phylick; together with those accessionals which improved Chymistry hath introduced: and since we. disturb Nature with our vomits and minoratives in the beginning,

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P. Caftellas de abufu Phlebotom. p. 6,7. beginning, and neither bleed, dyet or otherwise Physick our Patients according to the ancient prescriptions, do me wonder to see another face and issue of maladies than was heretofore? Or, doth not he rather deserve to be wonder'd at, that should expect in so different circumstances for resembling effects? I believe our Helmontian with his Emeto-cathartis, and exquisite Arcana ( fo far transcending all the shop-medicaments, or received Chymical preparations) doth see as few Crises as any Phlebotomist: and may not I then retort upon bim, that he by his practife wholly disappoints a Trilis? Nay, doth not he tell us, that in his way? there will be no need to ftand gaping for a criffs, p. 161fith that may be anticipated, and all fecured before that time, if there be a regular procession: And may not the present Galenists justifie themselves in the same manner, since they can better warrant their process and Medicaments; by a longer succession of Experiments happily made by judicious men, then this ignorant Helmontian Innovator?

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Another Argument of his is this.

Gious disease, is a preparatory for a sharp Feaver, as p. 1106 dious disease, is a preparatory for a sharp Feaver, as p. 1106 Doctor Willis and I both herein jump right in our
6 observation: then am I certain that Phlebotomy re6 peated in an acute sickness, is a door set open and an
6 in-let for a long insirmity, so that this mode of defal6 cating the vigour of the Spirits doth for the most
6 part (as I have strictly heeded many years) disarm
6 and plunder Nature in such fort that it cannot resist
6 the Assaults of every petty insirmity, witness those
6 multitudes who after sharp conflicts fall either into
6 relapses, or Agues, Scorbute, Dropsies, Consumpti6 ons, Atrophy, Jaundise, Assaults, &c. which might
6 be casily prevented, if a mature regular course were
6 taken.

taken to give convenient Emeto-cathartics, Analeptics, Diaphoretics, which safely and speedily cleanse the Stomach, keep up the strength and breath, that we need not fear any mischief from this late invention. Redundance of Sulphur, for Salt in the blood, no "more than choler, phlegm, and melancholy in the Ancients.

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P. 108.

The observation of Doctor Willis is this: de febr. p. 75. Præ cæleris vero observatione constat, quod crebra sanguinis missio Homines febri aptiores reddat. i.e. Now above all, it is certainly known according to observation, that often bleeding makes men more apt to fall into a Feaver: Again he follows it close. Hinc fit ut qui crebro mittunt sanguinem, non tantum in febres proclives lint, verum etiam pinguescere soles ant propter cruorenz succo Sulphureo plus impregnatum: i.e. Hence it comes to pass, that they who often breath a vein are not only prone to fall into Feavers, but also are wont to grow fat by reason the blood is full of Sulphur. In another place to this purpose he drives it home. Qui Janguinem habent sole volaticlisato bene saturatum ij sunt minus febribus obnoxii: chinc etiam qui sapius sanguinem emittunt ad febres aptiones funt. They whose blood abounds with volatile Salt, are not subject unto Feavers: for this cause, they that use Phlebotomy often are more liable to Feavers.

stands not a causa wen างยนเกม.

From hence G. T. forms this Epilogisme. G. 7- under. Well then the Doctor and I agree thus far in the main, that frequent bleeding procures Feavours; tartick cause which is sufficient to back my Assertion, that Phlebois: it is here tomy is no good method of healing, fith it is plainly a procataritick cause of Feavers. For whatsoever means exhausting the strength (as I can demonstrate this course doth, more or less, sensibly or insensibly) 'inviting or making way for Feavers, instead of pres venting of them, is not to be approved of or allowed

in curing the Scurvey or other diseases: unless we do act like Tinkers, some whereof are reported to amend one hole and make another: for how can it possibly consist with the honour and credit of a Physician, quem creavit Altistimus, to go about to correct the blood by often letting it out in a Chronick disease, and likewise withall to usher in, or as it were to be a Pander to the introduction of an Acute feaver, which in a short space dissipates that strength which this Phlebotomical harbinger hathin part worsted?

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In this Argument there are so many defaults (which are obvious to be seen) that I must recommend again to these Baconical Philosophers, a Caution I have more than once given them; which is to omit in all their discourses those beratious conjunctions, Causals and Illatives: 'Tis meer pedantry for them to be tyed up by such particles, the idle foppers of Grammarians, and Logicians, and men of common sense. The Reason, if reduced to form, runs thus.

That which inclines unto a Feaver is not a proper remedy in a Feaver of a section of the But frequent blood-letting inclines to Feavers.

Ergo.

The Major is false every way, whether it be supposed that Phlebotomy produce such an effect per se and directly; or by accident, and only in some persons, in some circumstances. For were it true that Phlebotomy did directly and wheresoever it is used introduce a Feaver, yet it may so happen that a Feaver may be expedient to some Patients for the prevention of greater evils, and sometiems for the curing of them: and in these cases it is as much prudence in a Physician to acquiesce in, or run the fortuitous hazard of a lesser or less dangerous evil, as its for States-men in the Body politick. Nature doth

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Vide Steph. Roder. Caftren: Dux et auibus. Valles. in Epidem. 1.4. floria Alcippi. Hieremias Thriverism

vers. Medic. 1. 8. c.x. Hieron. Ru-

C. Cellin de Medicina l. 3. C. 9.

often cure one disease by introducing another: and commuting the more dangerous into another of leffer hazard : as any intelligent Physician knows, who understands the Metapto sis and Metastasis of diseases. I am not obliged to read to these Disciples of my Lord Bacon a course of Medicine. There is an Aphorisme of Hippocrates to this purpose. Quia convulsione aut distentione nervorum tenetur, febre superveniente liberatur. Upon which words Hieremias Thriverius doth thus comment. Alio modo febris convul Conem tollit ex p: 448 in hi- plenitudine, alio rursum modo distentionem: convulsionem enim curat, quia plenitudinem discutit; distentioin hist. semu. nem vero quia insigniter universum corpus incalefacit: la empilita. forte etiam distentio convulsionis genus nescit. Quicquid autem sit,utrique febris confert, ac potissimum dia-Brachelius in ria, imo & putrida minus periculi affert, quam ipfa diftenlib 4. Aphor. tio. Frustra ergo constittantur in ea questione Neoterici, an putridam febrem convenit excitare in convulsione ex Valler contro plenitudine, aut flatulente tumore. Which that it may be lawfully and prudentially done ( but not by every fool ) is a judged case amongst us: and were it not bewin C.Cel- lawful, the Argument would by a parity of reason exfum.1.5.sect.4 tend to several operations in Chirurgery. It is the judgment of cellus long ago, with which I conclude. Sed est circum petti quoque hominis, & novare interdum, & augere morbum, & febres accendere; quia curationem. ubi id quodest, non recipit, potest recipere id quod futurum est.

The Major being thus false in that sense which was most pertinent to his purpose: 'tis most ridiculous in the other: For who will not immediately laugh at him that should the determine? That which may in some persons, and in some circumstances incline unto a Feaver, is never the proper remedy of a Feaver? And how can this Bacon-face upbraid us herewith, who doth himself prescribe to his Patients in Feavers the most generous liquors of the subtilest smack, exhibited largely,

p. 169.

largely, without infifting upon the nicety of any danger from heating? and yet his sack and other generous liquors may ingender Feavers, and other distempers in the healthy. In fine, Whoever rejected the use of a thing for the abuse, or condemned peremptorily any cause for accidental inconveniencies following thereon, but such a Dulman as this Helmontian, and his brethren

the disciples of my Lord Vernlam.

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To the Minor I reply: that for the observations made by this insipid pretender to Pyrotechny, I regard them not at all: he hath not judgment enough to make one. Ego vero sicuti experientiam multi facio, Nova Acad. dummodo commodum expertorem nacta sit: Ita si uni- cul. p.21. cuique qui se expertum dicat temere credidero, ridiculus profecto babear: ut qui & fori circulatores ac loquales vetulas, agrestes quoque sacerdotes in pretio habeam. Nam si quæras, omnes uno verbo, quæ proponunt se expertos dicunt. It is true I have a great reverence for the name of Experience, and the bare mention thereof commands an attention from me: But it hath been the peculiar misfortune of my education, that I have been taught, not rashly to assent: nor to believe every thing that is told me, since there is nothing but may be spoken by some body. I can be so civil, and so curious as to give the Relator an hearing, how mean loever he be, but before I credit him, I must consider whether the thing be possible? and withall (because my knowledge is not the adequate Measure of possibilities in nature) Alhether it Were done? If the thing did succeed, I inquire, Whetherit will constantly, or most commonly follow upon the like causes and circumstances? Or whether it is a rare accident? In the two first cases, the knowledge thereof makes a Phylician the better Artist: the latter adds to his general Science of natural Phanomena, but not at all to his art, except in cases as tare as the Phanomenon related. In Artibus, inquit Galenus, duo sunt præceptorum

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Io. Riolan. in resp. ad dubia Anato-P. 75.

Ar. Rhet. 1.2. Hay, Exal देशका भूते हेवतीं-\$5- 13 EUTImodificates &En พนาที่ อินเ-है। में संविश्वा # diexupi Con-704.

ceptorum genera, unum corum quæ perpetuam habent veritatem: alterum, quæ utplurimum ita se habent. mica Barthol, & tolerantur: quæraro fiunt, ibi locum non habent. At hodie multi sibi placent in scribendis & obtrudendis observationibus raris, tanquam novis Artium mysteriis: sed rara non sunt Artis. Ido also consider the quality of the Relator: the vain-glorious and ambitious are easily deceived, because they passionately desire the "Eusganumni thing should be so, and 'tis for the credit of such Observators, if it be so: the young are easily imposed upon by the little experience they have of things, the credulity that 50, Satiful is in them naturally, and the good opinion or hopes they have of the integrity of others; and because they are conseited of their own knowledge (though the prospect TRENTA SIGNAM, of things be narrow ) they are prone to opiniatrity, and vehement in their affertions, though too unsetled, and impatient, (as well as ignorant) to weigh any thing maturely and with all its requisites. I do not weigh the greatness and opulency of Relators, but value them as they are Attiffs, for such only can judge in their own Faculties: And when controversies arise the Stagirite deluded me into an opinion, that the most probable tenet was that which the most, or the most intelligent did profess. This Pyrotechnist upon many reasons deserves not any credit: he writes Books as Mountebanks paste up Bills, to invite custom: the Medicines he recommends are such as by the sale thereof he would advantage himself: all he publisheth is in a subserviency to this end; and tis not his skill, but his ignorance that is concealed in his Arcana: all that ever sweet William or Andrew related upon a Quack-Salvers stage deserves as much of beed and esteem, as what-G. Thompson talks. I do not ask thy pardon Dh! most illiterate and dull disciple of my Lord Verulam, for dissenting from Thee. But I with submisfion and deference beg leave for not adhering to Doctor Willis: No man of understanding can condemn bent

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his practise: he hath not altered the Authentick methods, but given new and plau fible reasons for an Ancient procedure: This Character is due unto him, that scarce any man surpassed him in his thoughts, when awake; and 'tis his peculiar happiness, that his Dreams are pleasant and coherent. Amongst all that have written about Phlebotomy, and its abuses, I never met with one that recounted this for one evil consequence thereof. that it inclines men to Feavers: I find P. Castellus to reckon up twenty five evil accidents which some- Claudinus times ensue thereupon: but this is none of them. Nor frequent do I see that it is reconcileable to that effect of Phlebo- Phlebotomy tomy, whereby it refrigerates the habit of the body, and as a remedy for famely. the common distempers which follow the Abuse of it, Venz section are colo: If it be true that it inclineth people to be omnino convenit; imo fat, and fat people are neither so hot, nor incident to sunt, qui nihil Feavers, as the lean and bilious (though otherwise magisaddemore weak) there is reason why my doubts should trahendam corporis moincrease upon me. It might, with some colour, have lem valere been faid, that excessive Phlebotomy did dispose to the existimant, Rheumati/me and Gout; but not to Feavers; except bram sectio. by accident that some persons having contracted a grosser nem venz. and more sanguine habit of body upon Phlebotomy, and Empiric. ratios ( such complexions being most capable of any malignant c. 4. or pestilential and contagious infection, not by reason of their phlebotomy, but from the habit of body, which whether natural or adventitious is lyable to those ca-(nalties) falling upon any excess or other occasional canse into the Small-pox, or Sanguine feavers, the observation hath been raised into repute. It is a thing I have not seen to happen vulgarly: nor doth any Author, that I know, take much notice of that other effect, how Phlebotomy inclines to fat: I have read in lo. Fuelsius Joannes Fuch fius a Bavarian that such a thing hath fal- compend. len once, or so, under his observation, in a Lady: and abus. p. 2. c. 72 Doctor Primrofe denies the matter of fact, that Phie- Primrof. de botomy will make those that are inclined to be fat, vulgi errors, 1.4. c.59. tatter:

fatter: though persons that are extenuated and emaciated with sickness may by bleeding acquire a greater

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corpulency: And certain it is that in those Countreys where Fhlebotomy is most used, there are fewest fat men, and women: as Spain, France, and Italy, or Egypt, in this last region, it is their particular study, and a distind profession, to make people fat, but 'tisby other courses then Phlebotomy. In short, I my self have been let blood above fourscore times, and yet am lean: and so far from being feavourishly inclined, that I never had any except the Measils once, and Smallpox twice: and twice a tertian Ague: and I find no imbecillity or prejudice in the least that should induce me to repent what I have done, or resolve against it for the future: But we must distinguish upon what is produced by any thing as its canse, and what is only a concomitant thereof: If it ten thousand times proves otherwise, we must not impute the growing fat of one Patient to Phlebotomy indefinitely, but rather to some alteration the disease (in which it was applyed) hath wrought in his body, to his Analeptic diet, and course of life, subsequent thereunto; or to his individual temper. And perhaps it may be not impertinent to add here, that as Distillation and the burning of the blood of a Multitude of persons hath convinced me that there is no such deflagration of blood, as that learned Physician imagines, nor any vital fermentation in the blood depending upon the Chymical ingredients of Salt, Sulphur, and Spirit, &c. so neither is the Blood of corpulent persons (I never tryed the Obese; because they do not bear Phlebotomy; except once in a Touthlately that was extream fat, and in danger of an Apoplexy, and it did not burn with fo vigorous and

lasting a flame as that of many lean men, but by its crackling gave testimonies of much salt: yet the serum was insipid) it is not properly sanguine, but pitui-

Prosper Alpinus de med. Egyptiorum, 1.3. c. 15, 16.

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But to resume the discourse: I expected to have feen the Minor proved by our Helmontian; but although I find that he faith his observation did jump with that of Doctor Willis, that Phlebotomy did in= cline to feavers: Yet my Reader may see that in the first part of the Argument, as I have urged it in his own words, he reckons amongst the evil consequences of bleeding none that proceed from an opulent and sulphurcous blood transcending the dominion of the spirit that remains after Phlebotomy, but fuch as argue an impoverishing of the blood, or a cold indisposition. I will repeat it again, to shew how justly I censure his Logick, and so dismiss the Argument.

If it boso, that striking a vein oftenin a long and tedious disease, is a preparatory for a sharp Feaver, as we both herein jump right in our observation: then am I certain that Phlebotomy repeated in an acute Sickness, is a door set open, and an in-let for a long infirmity, so that this mode of defalcating the vigour of the spirits doth for the most part ( as I have strictly heeded many years ) disarm and plunder Nature in such sort that it cannot relist the assaults of every petty infirmity, witness those multitudes of relapses, or Agues, Scorbute, Dropfies, Consumptions, Atrophy, Faundise, Asthmaes, &c.

The proof of the Minor here is not only defective: but the mischief is, that Doctor Willis, who judiciously Dr. Willia deuleth Phlebotomy, commends it in Feavers both in the febr. p. 197beginning and augment of those that are putrid, (and allo in Diaries ) as the principal remedy (inprimis conducit)

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Dr. Willis de febr. p. 166. edit. 1662: conducit) and speaks in the place cited by our Helmontian only of a sustomary letting blood in time of health: Whereas this Bacon faced Pyrotechnist, saith that their Wits jump in this, that often striking a vein in a long and tedious disease is a preparatory for a tharp Feaver: Let any man read the place and fee how he abuseth that excellent Practitioner, whose words are, Præ cateris vero observatione constat quod crebra Sanguinis missio homines febri aptiores reddat, quare dicitur vulgo, quibus sanguis semel detrabitur, eos, nist quotannis idem faciant, in febrem proclives effe. Iam forry he should seem to give a reason for a vulgar error: for once or twice bleeding doth no more create a Custom, or dispose Nature to an anniversary commotion in the blood, than one swallow makes a Summer: But certain it is, (I speak of our cold Climates, not of those hotter where sweat and transpiration often prevent those determinate motions of nature) that such here as are very much accustomed to bleeding, keep certain times for it, their bodies will require it at that time, and, if they refrain it, they will feel an oppression and dulness, or lassitude, and may fall into a Feaver, but Aches, Rheumatisme, Gout are more likely, except other accidents concur to produce a Feaver: if the ebullition be no greater than to produce a Lassitude, 'tis possible (in some bodies) that the Scurvy, Cacochymy, Cachexy, Dropsie, Asthmaes, Cephalalgges may ensue: for the morbifique ferment, like the scum boyled into the broth; may mix inseparably with the blood, and vitiate for ever that great sanguifier with an unexpressible pravity.: But he that thinks 'twill be fo in diseases, when the Patient is phlebotomised, neither understands the motions of nature, nor the effects of a sound recovery. Instead of Doctor Willis this illiterate Baconist (who profesfeth to be so well versed in the way called Galenical) should have (as he argues) made his recourse to Avicen and his followers, who are (in many cases) fearful

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fearful of Phlebotomy, least it should produce an ebullition of choler, or crudity: which two inconveniencies may produce all that—G. T. talks of. Thus sometimes Tertians have been doubled, nay turned into irre- Hor. Augen.de coverable continual Feavers. But all the cases relating le 4. c. 19. thereunto concern not an intelligent Physician, who understands what is past, present and to come, and knows when to presume, when to fear. But I intend not to teach these fellows: it were better for the Nation, and them too, that they were Coblers, or day-labourers, than Practitioners in Physick: a Doctoral Diploma, though purchased, will not sufficiently qualifie them for the profession; and as little doth the title of Experimental Philosophers, and Verulamians, avail them.

The next Argument of his that I come unto, and which is more than once inculcated, as if he thought it a Demonstration, is this, as I may form it.

"If it be not fitting, nor useful to bleed in the Peft, which is a Feaver will it is not fitting, nor "useful to bleed in any ill-conditioned Feaver whatsoever.

"But it is not fitting, nor useful to bleed in the Pest. Ergo.

" The Consequence of the Major is thus proved. It is no less criminal to suffer the Blood to spin out in p. 82. any ill-conditioned Feaver what loever, then in that which is so zer Zoxir. And, Albeit our Phlebotomists p.99. do extenuate the matter, setting a fair gloss upon it, pretending that in malignant Feavers of the inferiour clast, Plethorick or Cacochymical indications do maonifestly require their utmost assistance before that inconsiderable venome lying occult: I must, by their fae vour, be bold to tell them they will never folidly and c speedily

other disease, till they handle it in some manner like the Plague: for there is quiddam deleterium, a certain venenosity in most maladies; as I can prove ex

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P. 81.

The Minor is thus proved. For whofoever at any time, upon what pretence foever of caution. attempts Phlebotomy for the cure of the Plague, takes a course rashly to jugulate the Patient, unless some extraordinary redemption happen. Certainly here Doctor Willis ( who allows to persons accustomed to bleeding, and in plethorick bodies, the humours being very turgent, though feldome, and with great caution, c to bleed) speaks by rote, for had he Anatomised the e Pest, investigated the nature of that atrocious stroke, as i have, feeling the smart of it three several times, he would as foon allow of piercing a vein in him who hath taken an intoxicated draught, as at any time in this case, where the stomach alone is the place from whence the poyson is to be exulated. 'Tis no wonder if the Galenists strait injoyn bleeding, where they find a Jeeming fonines in the less malignant Feae vers, when they dare be tampering with it in the e greatest. The only noted Sluce through which the poysonous matter of all malignant Feavers passes away, is the universal Membrane, the Skin, on which the Stomach hath no small influence, governing this Catholick coat at its pleasure, in so much that no successful sweat or eruption can be expected as long as the Duumvirate lies prostrate under any insulting calamity. Wherefore the Arch-delign of the Phylician is to cherish, corroborate, and remove all impedie ments of this eminent part, that it may protrude, explode, or ejaculate from its bosome to the utmost limits, whatfoever is virulent, closely supplanting the fortress of life. Now whether bleeding be any comepetent Medium to atchieve this, let any one indiffee rently

P. 29.

rently versed in the knowledge of the Pest be Judge. wherein no honest able Artist dare open a vein, because it will attract the Miasme inwardly, hindring the extrinsecall motion of the Archaus, for the expulfion of what is mortiferous.

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Before I come to answer particularly to the Argument, give me leave to animadvert upon some passages in this discourse. As to the Duumvirate, I do not understand whether he be absolutely of Helmont's mind, or no, making the Pylorus of the Stomach to be the place where the Soul is radically leated, and whence it displayes it self principally in the management of the Oeconomy of the body; joyning the Spleen with the Stomach as an Associate in that Soveraignty. There is not any thing more foolish than the dreams of Helmont; had our Baconist any understanding of humane nature, any converie with modern Writers, the vanity of the Duumvirate would have been manifest unto him: I advise him to read the Fundamenta Medica of the excellent Mebius, where he treats of the Stomach and spleen: where he alledgeth nothing for himself, why should Linsist on anything. The general Archeus of the Stomach and that appropriate to each part seem to me to import no more, nor to be more intelligible than the innate heat of each part, and that other influencing each part and disseminated from the Heart: If the innate heat of each part be called a particular ferment, it matters not much: I comprehend it as little still: How the operations of Nature are performed I know not, nor ever shall understand by Canting terms, or Similitudes: That the notion of Fermentation is equivocal, or not to be accommodated to the Stomach and its Mabius fundigestion, but by a certain Animal heat, I think Mebius dam. med. de hath evinced: and I cannot be satisfied with the reply p.178. of Kergerus: and if the notion of an implanted fer- Kerger. de ment and fermentation be suspicious there, where there fer met. § . 3.

is the most to be alledged for it, I may be pardoned for scrupling to fix it elsewhere; but to be content thus to manage the Question, as if it were branched into these Interrogatories.

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Whether the Pest be a Feaver var' Joseph ?
Whether in the Pest it be lawful and beneficial to let blood?

Whether all ill-conditioned great Feavers, and most maladies have in them a particular venome, deleterium quiddam, and are to be cured by Corroboratives, and Diaphoreticks, without Phlebotomy?

The distinct solution of these Questions will make the answer to his Argument very facile: and I will not retrench upon the not-to-be-perceived Empire of the Duumvirate, nor inquire by what means the stomach hath such an influence upon the Skin as to govern it as it pleaseth.

The first Question if I were to determine it out of —G. T. in his Treatise of the Pest, I would resolve in the Negative upon this reason. If the Pest be a Feaver ran' Faxin, then is a Feaver inseparable from it, and that term ought to be put into its definition. But— G. T. doth not define the Pest by a Feaver, and grants that the Pest in some produceth no Feaver at all. Ergo—

G. T. of the Pest: c.1. p.8. His definition of the Pest is this. The Pest is a contagious disease, for the most part very acute, rising from a certain peculiar venemous Gas, or subtile poyson, generated within, or entering into us from without: at the access or bare apprehension of which, the Archæus is put into a terrour, and for thwith submitting to the aforesaid poyson, invests it with its own substance, delineating therein the perfect Idaa or image of this special kind of sickness distinct from any other. He that can accommodate this Definition to a Feaver, or find any thing of a Feaver

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Reaver in it more than of the Colick, or Dysentery, Diarrhaa, understands more than I; for even these have been Contagious, as well as Epidemical: Perhaps he will reply, that the Pest is alwayes so: But in this, notwithstanding his boasting here he understands the Peft, and (whereas Rondeletius and other Galenists diffected many that died of the Plague) he did anatomise one that deceased of it, yet doth he not know the Nature of it: For the Pest is not alwayes conta= gious, there being recorded many cases in which the emerbrook de rest hath seised one person, and extended no further. pest. 1. c. 7. However if the words Contagious disease do not \$. 1. p. 18. include a france 250xin, there is not any mention-cdit. 1665. ed in the definition: and if they do, then is also the Zacchias Qu. Scabbado, and Leprose, &c. a fraver 227' ¿zoxiv, since medico legal. each of these is a Contagious disease. In sum, He 5, 13,14. grants that the Pest may invade without a franer, in G T. of the these words. — It produces a manifest Feaver in this Pest.c.3.p.42. man, and in that none at all, or hardly any sense--These words do not become a man that Holds the Pest to be a Feaver 1827' Egoxin, and carries on the Hypothesis so far as to make all malignant, putrid, Feavers to participate thereof, and bear some resemblance thereof: and (which is pretty) that almost all maladies ( either Feavers, or not) fall under the same predica-

But I pass from \_\_\_G. T. to inquire into the true cxii. nature of the Pest according to the most learned and Me during. judicious Practitioners that ever attended in it. The the siege of most accurate Isbrandus a Diemerbrook relates how Breda, relates many in the Pest at Mymmegen (where he was Visitant) as had the had the Pest without any signs of a Feaver: norwas Plague, and this to be seen only in such as dyed fuddenly, but in yet during the whole those that had Botches and Carbuncles, yet went up and time of their down and pursued their business, without being any way Sickness had feaverish: of which number himself was one. And van der Mye he with the allegations of many Authors and Histories de morbis

Isbr.aDiemerb. de Peste I. I. of Bred p.11,12 : C. Hofmann. Antifernelius Lemm. 64.

1. Nordim in Lucret. 1.6. p. 527. Alex. Maffar. de pell. l.1. (inter opera) p, 498. & Forrest. de Sennert. de febr. 1.4.c.1. ep. 52.

of Plagues justifies his Definition, in which he forbears to makethe Pest to be a Feaver. In like manner Casper Hofman living in Norimberg, when the Town was befleged and the Plague raging, had the Peft himself with a Carbuncle on his shoulder, sed sine alio symptomate, and taking due care of himself, without confining himself to his bed or chamber, he recovered: He instances in others that escaped, in the same condition. With these agreeth Nardins, who was chief Director in the Plague at Florence in 1630. And the most learned Massarias who was Physician at Vicenza when the Plague reigned there in 1577. Out of all which it is manifest that the Pest is not a Feaver wer's Eoxir, fince sebr.l.c.obs.x. there may be a Pest in which the sick party hath not any Symptome of a Feaver: 'Tis true that many learn-Dudish, inter ed men do define the Pest by a Feaver, and do hold that apid schoet there is no Plague without one; but fince they confess that sometimes neither Pulse, nor Vrine, or any symptome discover the least characterisme of a Feaver, 'tis

Fateor febrem hanc pro putredinis aut d'fflitionis conditione, copia aut incremento, modo majorem, modo minorem existere, quam in nonnullis Synochum, Tertianam continuam, & Febrem quem. cunque ardentem incendio & calore æquasse, non ego tantum, fed & Collegæmei, Doctores hujus urbis Medici clarifimi, ægris in publico Nosocomio decumbentibus operam præstantes observarunt. Minderer. de pestilentia. c.6.

against common sense to affert what they do in such cases. It is granted that ufually the Pest is accompanied with a putrid malignant Feaver of a very uncertain Tipe; which sometimes appears not before the Botch and its Suppuration, fometimes it begins with the first attacque of the venome. If what I have faid be true, and that the Pest may be without any sign of a Feaver, orany sensible indisposition, I much doubt the reality of his opinion who talks so much of the affrighted Archaus, and the troubles fur

which essentially and inseparably befal the Duumvirate of the Stomach and Spleen upon this invasion or insurrection of the pestilent venome: and I am more confirmed in my jealousie, because I have read that some of them that have had the Plague, have not felt any Symptome isto

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Symptome about their Stomach, not so much as a debility of appetite, but sometimes they have complained first of their heads being discomposed, and most com- Sennert, de monly of anxieties about their heart. But 'tis not de pessilent. my intention to write a Treatise of the Plaque: 'tis Poiam de a disease I never saw, though at Fulham-pest house and Pest I.I. c. xii. at Windfor I gave such Prescripts and Medicines in the beginning of the Plague as did equal in effect any of the Arcana of this Helmontian. As for the knowledge this talkative person should acquire by dissecting one body, it is but little; it argues want of reason in him to conclude generally from one case: the Glory of the Act is much abated in this, that Bontius, and Rondeletius Rondeletius in the presence of many Students dissected several idesebr, de and (which is more) this last denies the Carcasses of sebre pestifuch as dye of the Plague are not infectious; so doth lentiali. Fracastorius, Jordanus, Gregorius Horstius: I allow that this last is not a constant truth, and that there are some Observations recorded by which it appears that the Carcasses of such as died of the Pest (before putrefaction) have been infectious. But to shew with how much injustice he triumphs over the Galenists for his having distected one single body, I shall let the World feethat the Galenists (without proclaiming the fact, voicherm Cst.) or causing a Picture of it to be cut ) have done as ster dissected? much, and that the variety of Pests, and the different Hungarian effects they produce in bodies is demonstrable. At Pa- Pestilentisl lermo in Sicily in 1647, there was a Plague, in which feaver: fo upon the diffection of many bodies by a fort of fel= and Rulindens lows, all whose knowledge did not enable them to cure a cut-finger, whole skill is but words. and advances nothing : these Galenists did Anatomile them. Hec visa: vasa omnia venæ cavæ sanguine ita nigro, adusto, atrabilari, turgida acrepleta, ut fusi I-seph. Monatramenti similitudinem præ se ferret. Idem sanguis cub. vena tum in corde; tum in faucibus repertus fuit, pulmones des. p. 153,23 atque bepar tumefacti, inflammati, ventriculus bile turgi- 154.

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dus, nulla in venis Meseraicis, nulla in intestinis lasio. Eadem hac uniformiter in singulis fuerunt observata. If it be said, that 'twas no great attempt; because it was no very mortal Pest; yet this is certain, that it lay in the mass of blood, and that the Duumvirate was not so much concerned, as G. T. could have wished; nor the blood in the vena porta altered according to Circulation: Well: that last at Naples I am sure was as pernicious as ours at London; and there the colledge of Physicians caused many to be diffected : I have not met with the Programme published by them. but the Dunmvirate gains nothing by what I do read. Nam disseta cadavera, bepar, pulmonem, intestina, nide pest.p.239. gris maculis interstincta, cor vero atro sanguine concreto luridum præbuere, ut Medici Senatus Neapolitani programmata die secunda Junii edita promulgarunt. Neither doth it appear that what this Pyrotechnist saw in the body, after the man was deceased, was either the cause or seat of his distemper when he first fell sick: the last strugglings for life might express many liquors into the stomach, and vitals, and they upon their commixture, setling, and refrigescence create, other Phanomena than were meerly the effects of the Pest. Tis averred by C. Celsus, Neque quicquam est stultius, quam quale quid vivo homine est, tale existimare esse moriente, imo mortno.

C. Celfin medicina l. 1. pref.

Carol. Valefius

de Bourgdieu

That I may the better decide the subsequent controversies, it will be requisite I represent a more exact Definition of the Plague; and to do that well, I must distinguish upon the word Dest, which is either taken in a general sense, and so comprehends any Epidemi= purpura c.7. cal contagious disease of which many in the same Country Do Dye, be it attended with a Feaver, peff.l.s. finter or destitute of one, be it occasioned by any specifick maoperalp. 497. lignity, or anomaly of the Air, or arise from evil diet, or imported by contagion. Thus the Epidemical contagions and pernicious Colick recorded in Ægineta, was a Pest:

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Pest: thus Squinancies, Catarrhs, Pleuristes, Peripneumonies, Diarrhæas, Dysenteries, the Measils, Small-Bapt. Codronpox, have been pestilential: nay the Garrotillo or chim de most vulga-Strangulatory disease in Spain, Sicily and Naples, though ribus, c it seized upon and infected scarcely any but Children, de sebr. peil. was a Pest, and esteemed so by Aetius Cletur and others p.13. Thus it was deemed at Venice to be a Pest of which Action Cleins fo many once died, though there were not any other denorbe Strangulator. Symptomes perceivable in it, but a tumor of the resticles c2. accompanied with sudden death. Legi superioribus Mercatus, menstibus libellum Veneti cujusdam, qui experientiam te stem citat, multos ex peste mortuos esse, quibus testiculi Dudi bimin. intumescebant solum, nullo præterea symptomate agrotos ter Egift. illos invadente. It matters not what is the anosuntus of Ep. 51. the disease, which way the venenate matter inclines, or what part it principally affects; a Carbuncle in the throat (as in the Garrotillo) is as pestilential as a Carbuncle on the band, or toe, if it be as epidemical, contagious, and mortal. So the Chin-cough may be pesti- Bollonius lential upon the like qualifications: and I believe that p.237. to be the disease whereof Ballonius speaks, that it was Epidemical amongst the Children in France in 1579. He calls it Iussis Quinta, and admires how it came by that name, and so doth his Scholiast Mr. Thevart: undoubtedly it was transmitted from England, and thence came that name, which the French miltook for Tussis Quinta, and Quintana: that is the disease I am lure he describes: he saith none ever writ of it: and I believe it to be true as to forreign Phylicians. Such mistakes will hereaster make work for Eriticke; who will makestrange glosses hereupon, as on the Milordus of H. ab Heere, and the Cerevisia Trihopenina in Mercatus; the first imports no more by unus ex iis quos Angli Milordus vocant, then one whom the English call recto med. Dy Lord: and the other intends nothing by Gerevisia prasid.usu.l.s Trihopenina than Three-half-penny Ale, and contradi. c.2. ltinguisheth from Cerevisia dugla, or double Beer.

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Hippocrotes Epidem. 1.3. cum notis 230, 281. pleurit. &c.

Vinder Mye de morbis

Alex. Maffar. de pest.l. I. inter opera. D. 510,511.

Neucranztius de purpura, p. 05:

to refume my discourse; I add that in such times as there are diseases of sundry types, and several symp. tomes, fo as that they may feem to be different and sporadical diseases only, yet in case they be malignant, vulgar pernicious, they are to be accounted either as for many Pests, or as one, under several disguises: for it is not alwayes true that in the time of the Peft all other diseates cease, as is evident out of Hippocrates: Thus Pestilential Peripneumonies, Squinancies, and Vollessis, p. 2790 Pleuristes did at the same time rage in Germany, (as Wierus relates) near the Rhine in 1564. And during 1.1. deepidem. the Siege of Breda amongst the Garrison at the same time, besides the vulgar Plague many pestilential diseases, as Tenesmes, Dysenteries, Cerhalalgies, and Catarrhs, which retaining their distinct types, were with-Bredsnin, p. 4, all pestilential: nor is it strange that I should reckon upon all these as radically one disease; for in the vulgar peft, fuch was that at Athens, there are reckoned up as one Bestilence a multitude of diseases that, were it not for that common mixture of a pestilential venome; must have been reduced to several heads. Thus in the spotted Feaver at Lubec did Neucrantzius observe that almost all manner of diseases were the effects of that 19eft: " rurpura venenata qualitas intro concepta, ut tota specie nobis adversa, ita ad morbos totius hbstantie merito refertur. Quamvis enim ultro concedam nullum fere morborum aut symptomatum genus dari, quod non in purpura sese offerat: isti tamen morbi consuetis non cedent remediis: & in singulis e morbis ac symptomatibus peculiare atque abditum quid apparebit, quod experto & prudenti Medico Supra sortemistorum, sed simplicium, morborum esse, imo a cæteris similibus totius substantiæ morbis se vindicare, e totoque genere inimicam illam qualitatem, in qua essentialis morbi hujus proprietus posita est, manifesto decla-Crare videatur. Sic lues venerea nulli non morborun conjungitur, qui tamen non illis consuctis remedits, see alexiteriis

alexiteriis junctis se curari postulant, adeo ut plerum-· que fallant non solum ægrotantes, sed ipsos etiam medicos, docente Fabio Paulino lib. 1. comment in pestem Atticam Thucydidis, p. m. 37. Idem in Scorbuto · Arctois locis medicinam facientes experimur, qui cuiclibet morborum & simptomatum conjungi solet, nt e nullis in reliquo corpore sceletyrbes indiciis morbi qua: · litas uni membro impressa aliquando hæreat, medicos

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Under the aforesaid Definition of Pelts I include all those that are called Pestilential feavers, such as the sweating sickness, Hungarian and Spotted feaver, the Hectick and Semitertian pest, of which you may read in Schenckius: for by the doctrine de Conjugatis, Obs. Medic, a Pestilent Feaver is a Feaver that bath the 1.6. Pest. This is not meerly a Logical Quirk; leveral Practitioners averre it: and particularly Mindererus: Reymond. whose words in opposition to such as distinguish be- pest. c. 6. twixt a pestilential Feaver and the Pest, are these. 66 Febris pestilens (ut illorum distinctione utar) aut vera est, aut non vera; si vera est, nil aliud est nisi ° Pestis ip sissima, & ut doctissimus Hieron: Mercurialis c loquitur a vera peste inseperabilis: si non vera, jam • nihil vel parum commercii cum peste habebit, 🔗 sic pefilens non erit, nisi ob similitudinem aliquam symptoc matum (quod forsan Galenus voluit) ita eam appelclare placeat, & sic inter malignas annumerabitur: e quod si gradum intenderit & vere pestilens effecta suecrit, nil nist pestis erit: alivquin simile esset dicere bic Saxoest aut Suevus, ergo non Germanus: aut hic Hestruscusest ergo non Italus. Unde febres malignas opporipue " & æquivoce pestilentes quandoq; dici observandum. i.e. A pestilent Feaver (to use their distinction) is either really such, or it is not so: if it be really such, then it can be nothing but the Pest it self, and as the learned Mercurialis observes, no more distinct therefrom than it is trom it self: it it be not such really, then it is not to be ac-H 2 counted

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Id. ibid. Neucron zius de purpura C.X. P.150.

counted pestilential, except you please to nick-name it so by reason of some resembling symptomes ( which it may be was the sense of Galen) whereas it ought to be reputed only malignant, above which degree if it rise and become truly pestilential, 'tis nothing else than the Pest: And to say otherwise is as absurd as to argue, this is a Tork-shire or a Devon-shire man, therefore no English-man. From whence it is evident that Feavers purely malignant are but equivocally stiled pestilential: and all that are pestilential are sozts of Deffs. Thus when Pestilential Pleurisies, Squinancies, Cholerick paffions, Lethargyes, Eryspelas's do rage, they loofe their usual denomination, and become fomany Pests (or the same) attended with a Pleurisie, squinancy, Cholerick possion, Lethargy, or Eryspelas, & c. And then those otherwise formal diseases become but symptomes, and accidental consequences of the Pest which vary not the essence thereof. Nor is it neceffary to the truth of the Definition, that all thefe. Pesis should be actually Epidemical, or afflict all sorts of men; orbe alwayes equally mortal: for the spotted Feaver is as much included here, though it extend no purpura, c. 3. further than one single person, and so is a pestilential Catarrh, or Cough, as our Physicians include the Plague brook de Pest. (commonly so called) under Epidemical diseases, 11.c.1.5.3.& though fometimes it extends not its contagion beyond one family, or destroy but one person. It hath happened that a Pestilential Peripneumony accompanied with (pitting of blood was more fatal than any vulgar Plague ever heard of: such was that in 1348. written of by Guido de Cauliaco (who lived then) it posted from the East to the West, and scarcely left surviving Sebs purp.c.s. then the tenth part of mankind, it so much. And the Spotted Feaver hath sometimes been more pernicious than the Plague in France: Again, I must say that sometimes even these Pests may not be pernicious or mortal: Such was that Peftilent Epidemical Cough in 1580 ..

Neuerantz: de c. 2. feet 3. Minderer.de peft. c. 6.

> Behenckips Obf. med. 1.6.

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1580. which over-ran all Europe, yet, as fick as men Werm Obilize were, there dyed not one of a thousand: yet doth not de pessilenti this derogate from my opinion, fince not only those that & Epidemica tust: & Forewrite of it do allow it to have been pestilential; but stm Obs. 1. 6. even in the vulgar plague, where it is expected obli 3. Io. Sporischine most should dye, at Millaine in 1576. and 1577. defebr. Epid. Septalius, who was Physician in it, records it, that many c.4.p. 128. more survived than died at that Aistation: Vollenola in yet, says he, would I have no body to deny it the title of loc. commun. a Plague, for it had all other figns of the Plague. 52:

There is a great discrepancy betwixt the violence and 1,1 c.14.p.23. symptomes of the same pestilential disease in its beginning, progress and end; betwixt such a difease (to appearance the same ) when it rages at one time and at another, in one season of the year and in another; upon some sorts of men above others, and some Nations above others (though living together, and using the same dyet and course of life) whereupon circumspect Phylicians maturely considering that this variety cannot be alwayes imputed to the discrepancy of dyet, or difference of seasonableness in years, or such like circumstances, they have allowed of a great variety of venomes, or gradations of putrefaction, and esteem these Pests, though they do agree in one generical nature, and some resemblance of symptomes and effects, yet to arise from different poylons, or graduations of putrefaction; and hence it is that no ino Plagues are ever almost cured alike; nor is it possible for to find out one universal Antidote against them all: As in poysons some are Septic, and Arsenical; some of another nature, as the poyfon of Scorpions, Vipers, the Serpent Diplas, &c. of Napellus, Aconite, &c. fo in Pests, by the effects, it is no guerceran: vain fancy in the Paracel sans, and Quercetan, or Min- redivivus. dererus to guess that there is a variety of venomes in Art. medic. qualities corresponding much with those known poy-pract. p. 39; sons, and analogous unto them. "His consideratis, ob- Minderers dec servatoque variarum pestilitatum diversis locis ac tem- peles c. 30 poribus.

Septol.de Peffi

cebit, venenum pestis adeo esse varium experientia docebit, venenum pestis adeo esse varium & diversum ut
sungulæ propemodum pesti suæ sit peculiaris juncta malicia inferendæ neci sufficiens, cujus discrimen a nocendi
modo & symptomatum varietate petendum siet. Diligentissime proinde hæc veneno sitatis & pestis animadvertenda, & curationem suscepturis observanda. Etenim si pestis graves somniculo sitates, ingentes sapores
Lethargos & comata invexerit longe aliter tractari sese
postulabit, quam si vigilas inquietudines aut ingentes
cordis siccitates intulerit. Venenum enim pestilentiale
modo Dipsadis, modo Vipera, modo Cioutæ, modo Næpelli aut alterius exhibiti toxici naturam æmulatur, cui
in curatione singulari diligentia attendendum.

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e prout igitur his, per peculiaria ac cuique propria ane tidota succurrimus, ita & pesti, modo per hæc, modo per

'alia alexipharmaca obsistendum admonemus.

Et nos quandoque hac ipsa studiosius considerantes, pestem ab exhibitis venenis aut animalium venenatorum citu;morsu ac percussione immissis vix quicquam differ-

re cognovimus.

Concerning the spotted Feaver was observed by

that folid and circums pect Practitioner Paulus Neucranizius. Can etiam purpurativeneni essentiæ diversitas
variare purpuræ symptomata poterit? Ita censeo.
Namque ea late admodum patet, & universo ambitu
venenorum sere circumscribitur, variatque ut illa varia
on prope innumera sunt. Hinc plerumque continuarum sebrium indolem ementita; interdum anginæ malignæ epidemiæ, pleuritidis, colicæ, alterius ve morbi
specie, singulari quasi partium delectu, affligere, atque
hujus aut alterius veneni deleteriam vim æmularivide-

tur, ut morbum hunc novis plerumq; symptomatibus emergere medici observarint. Ut enim in peste varietatem veneni memorant Authores, qua eadem interdum Anti-

monii,interdum Arsenici, Napelli, aut alterius venenata

materiæ virus exprimit, symptomatum similitudine, & alexi-

P. Neucrantzim de purpura, c. 6. p. 69,70. do-

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salexipharmacorum diversitate: ut que uni pestilentie c saluti fuere, succedentibus annis in altera peste consuetos effectus negent; ita & in purpura ac malignis (e. bribus eandem affectuum diversitatem, nec eadem ree media semper prodesse advertere licet. Sed nec diverc sis solum temporibus purpuram diversos characteres exprimere, sed in una & eadem Epidemia constitutione, modo hos, modo alios referre, credendum, eadem effentiali sed specialissima veneni diversitate; quant specie ab alteravariat, ita pro indolis sua conditione diversa · symptomata procreat, amula & bic which; pestis con-· stitutione, in qua in eadem tempestate diversos specie morbos, qui ex illa maligna aeris impressione pernicio-'Sam vim acceperint, grassatos fuisse notum, ex epidem. 1. 3. sect. 3. I might illustrate this further by the difference betwixt the Sweating Sicknels, and other Defts at one time, and another: But I have said enough to shew that notwithstanding my Definition, I do allow that Pests may not alwayes be equal or equally pernicious, or equally contagious, and yet retain their name: there may be such different degrees of venoms, or that superlative putrefaction, and yet the species not be varied. I speak dubioully about the terms of venemeand superlative peculiar putrefaction, because the cale is intricate, what to call it. I know the Philosophy of this Age, which consists most in Similitudes, will more approve of venome; but if it be hard to defend Putrefaction in order to the production of Pests, 'tis no less difficult to illustrate Contagion by Poysons; and in reference to the practife of Phylick in Pefts, Ithink I can demonstrate that the Galenical notion of putrefaction is the most utile. Some men think they make a great improvement in a Science, if they illustrate it by a new Metaphor, or introduce a novel term, the import whereof is no more emphatical or perspicuous than the former; yet this must be deemed a new discovery, and by the imputation of ignorance, Students are deterred from reading the best Authors.

Thus we climb downward; and advance as much as he that turn'd Donne's Poems into Dutch.

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It remains now that I proceed to define the Diante in that sense to which it is in vulgar speech restrained: and amongst the several definitions that are given of it by judicious and experienced Practitioners, I shall fix upon that of Mindererus, as the most exact and conformable to the reality of the Phanomena.

The Pest is a venenate malady, very deadly, Mindererus de and contagious, primarily affeiting the Beart. pell. c. 6. and commonly attended with a feaver, BOTCD, Carbuncle, and Spots or To-

kens.

L. I. C. I.

Schenckius

Riverius prox. 1.17.

lect. 3. c.1.

obs. 1. 6. 82

Hieron, Rube-

This Definition whosoever would see well illustrated let him read the Author, and also Isbrandus a Diembrook, Palmarius and Quercetan: not to mention others. It appears evidently hereby that this Deft is but a species of that other more general notion: It ariseth from a peculiar sort of putrefaction, or venome, and though it have symptomes different from its contradiffinet species, though it be peculiarly called the Isbr. o Diemb. Peft, the sickness, the Plague, emsunia, rood emsuno, round, il morbo, la malady; and such as make it a superlative putrefaction, to shew that it is but of a different degree from the others, may alledge that sometimes malignant pestilential Feavers have turned into this 19eff naturally, or upon an evil method of curing. Exact min C. Celf. Desinitions are no more to be insisted on in Physick, 1.3.c 7. p. 143. than in Law; 'tis enough that they are commonly true. and that a judicious Practitioner knows when they hold, and when they fail. I have demonstrated that the Plague ( so called vulgarly ) is not so pernicious alwayes as the spotted feaver, or pestilential peripneu-

I.br. a Diemb. mony: it is not alwayes contagious. at Tales funt Li c 12. S.4. ille sebres, quas Galenus, 3. epid. comm. 57. & alibi, pelti'entes as he

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e pestilentes sine peste vocat quales se non raro observasse festatur Amatus Lusitanus cent. 7. curat. 27. Imo P. Zacchian Quercetanus in Alexic. & Riverius Sed. 3. de febr. though he do hold that the cap. 1. dicunt hujusmodi febres non semel visas fuisse Pestismost cum vera pestis indiciis (puta Anthracibus & Exan-commonly thematibus) & tamen a vera peste longe diversas fu- yethe proves e ise, quia non erant contagiosa. Has febres Saxionia it u not neces-Riverius appellant Pestilentes sporadicas; Crato be alwayes 6 de Liddelius, pestilentes privatas: alii pestilentes s Quest. Mefpurias. I shall add a passige of Crato, which is dico legal. not that to which this Author refers, but which He, who feet 21,22. lived so long, and was so competent a Judge by the Experience of many pestilential diseases, as his dying words doth import to the World: "Initio vero hoc tenendum, quod supra etiam monui; pestilentes morbos hoc so cruo assert. aum, quou supra ettam monte, per plurimis perniciosi, pestilent.p.18 graves & lethales. Ut autem per contagium comemunicentur, nisi putredo ad istammalignitatem in iis divenerit, ut morbidam expirationem transmittant in 'alia corpora, non necesse est. Plurimos enim interire e nullis prorsus contagionis indiciis extantibus, apparet. Pestilentes igitur privatos, nisi putredo in iis orta mor-6 bidum extiret, aftantibus innoxios esse affirmamus - Id. ibid. p. 20. c Accedit ad boc quod nostra quoque atate in multis regioe nibus orientalibus de Meridionalibus, Pestilentias plucrimis exitiosas fuisse constat: in quibus neminem conc tagione contaminatum, necullos a consuetudine agro-' tantium refugisse legimus. i. e. In the first place it is to be held for a certain truth, that pestilential diseases have their properties, that they are deadly to most, being very afflicting, and mortal. But that they should be contagious, it is not necessary, except the putresaction be come to that, height as to produce such a morbid exhalation as may infect other bodies. For it is most apparent that many dye, and yet there is not any fign of contagion to be demonstrated by its proper effect, of having introduced the like lickness in others.

We do therefore avow, that those we call private Pests do not prejudice or infect those that attend the sick party. — Besides, even in our Age several deadly Plagues have destroyed multitudes in the Eastern and Southern Climates of the World, which yet have not diffused themselves by contagion unto others, so that none have declined to converse with the sick.

Whereas it is said in the Definition that it primarily affects the Heart, it is not to be understood so constantly though generally a great debility and disorder of the pulle, and proftration of the strength ensue: for sometimes an indisposition in the Stomach is the first fensible symptome the Patient feels: and sometimes the Head is first and primarily affected, as in those that are Lethargical and Soporous, or Vertiginous. I read that A. Paraus going to visit one sick of the Plague, and hastily taking up the bed-clothes, that he might see and dress a Bubo which he had in his groin, and two Carbuncles upon his belly: presently a sudden thick, noisome vapour issuing from the Carbuncles that were apostimated, and broak, pierced his nostrils and discomposed his brain, so that he swooned away, and fell as it were dead and senseless upon the floor: afterwards coming a little to himself, he was giddy, and every thing seemed unto him to turn round, so that he had fallen to the ground again had he not laid hold of fomething whereby to support himself: All the comfort he had was, that he found no indisposition about his heart, no pain, no palpitation, nor any fign of any powerful and fixed debility of his strength. Which confirmed him in an opinion that only the animal spirits were tainted with that pestilent exhalation; in which he was more satisfied, by reason that he sneesed presently ten times with so great a violence, that his nose fell to bleeding, and that evacuation (as he thought) freed him from the venenate impression: for he felt no other ill effect afterwards.

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In that I fay it is commonly attended with a Feaver; it is upon the grounds already alledged: I add that P. Paam the great Phylician at Leiden (in those Provinces the Plague is frequent) denies that the vulgar Pest P. Passo trad. is to be defined by a Feaver. For it is not an usual de Pesle.2. Feaver, neither sanguine, or putrid: there happens oftentimes no signs of either of those in the Plague. It is not a malignant Feaver; for neither is the type and characterisme thereof to be discovered here, no nor the least sign of heat frequently. You will say that sometimes'tis a common Feaver, sometimes malignant: but neither is that true, for albeit frequently, nay, for the most part it be accompanied with a Feaver, sooner or later, yet is that but a symptome thereof and separable from it: they have different originals; the Pest a venome; the Feaver a putrid heat. All poysons do not ingender a Feaver in him that takes them: why should we think otherwise of Plagues? In short, Experience thews that sometimes there is no sense of any great or unusual heat in the infected, no thirst, no alteration in the Pulse, Vrine, or Respiration: wherethat which is essentially consequent to a Feaver is not to be found, 'tis but reasonable to deny the antecedent to be there. I refer the unsatisfied for to be further convinced by Sennertus de febr. 1. 4. c.19

As to the Botches about the Ears, Arm-pits, and Groin, and the Spots (or Tokens) and Carbuncles, those are so no necessary to this 19eff (though many die before any appear) that the populace is rather suspicious, than convinced, till they be feen.

Having premised this long discourse, which I hope will seem neither useless, nor tedious to any Reader, the

solution of the ensuing Questions will be brief.

Concerning Phlebotomy in the Peft, whether it be useful or legitimate, it is a question not to be resolved otherwise than by distinguishing upon the Pest: If it

be taken in a general sense, I answer, that it hath been frequently practiled with great and visible successin se-

(a). Contrarus de purpurat. febr. c. 12, 13. Pet; m a Custro de sebr. puncticular. foet. 6. & in dedicatoria epifler Dilea. Liftian, de venz, feet c. 9. art. 4. p 129. Septal. de Peffil. f. c. 17.

gina puer. exercit. 5.

veral Epidemical, contagious and frequently mortal diseases, as the (a) Spotted Feaver, the (b) Padanchone or strangulatory diseafe of the Children in spain, Sicily and Naples: In the (c) Hungarian Feaver al-10! and in Evidenical catarrh (when it was in Holland) Forrestus did with great fuccess bleed; in 1580. Obs. Medicin. 1. 6. (b) Bonholin, de An- obst 3. But I must also say, that our Expe-Severin de abicest pi449 m rimental Phy Reiuns in thefe cafes do some-Mensies consult, 14. (c) Cabelchover cent.5. Times interfete one with another 3 and at the consultation of the control of the disca-Ruland, de febr. Unga- fes have been cured without bleeding: that vic. p. 270. & alibi. it is to be administred with great caution ;

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we wer is it never more true that Medicaments are as it were the bands of the Almighty, then when in fuch diseases . Phlebotomy is prudently used: all circumstances must be duly weighed to the administration thereof; and there are so many fatal instances of the suil success, that though they are ballanced by contrary Experiments made in all Countries, yet ought the wifest to be timorous; and the ignorant ought to confider, that since in such difeases most die by the violence thereof (and this is their nature) it ought not to feem strange, if Phlebotomy prove us ineffectual, as other Remedies do. In such diseases, 'tis not rashly to be attempted in the beginning of the disease (as Coyttarus in his excellent discourse observes) but when it is in his progress, and that the nature and tendency of the pay som is manifest, and the strength of the Patient better judged of if indications require it, nothing is more beneficial, not that it is then administred to evacuate the poylon (as our ignorant Helmontian doth suppose) but to allay the purid Feaver, and concodit; for reunlsion in pestilential Pleurister, and Squinancies, si il : kg. 183 ma ja gardhufandin (1966) ( wherein

Cwherein each wise man divides his cares betwixt the Hieron. R 100 malignet, and the disease it self) to prevent further min C. Cel. putrefaction or those inconveniences which some dire- p.140,141.

ful symptomes menace the Patient with.

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In the more limited fort of Delf, commonly termed the Plague, as the disease is usually more pernicious than in those others, so do Physicians multiply their fears, and Patients their suspicions. They are much divided upon the point; and though the generality of modern Writers oppole Phlebotomy, (or suspect the good issue) nor can the happy instances for the contrary (though they may be alledged in all Countries) fuffice to imbolden the present Age. The happy pra-Borollon de Cise of Botallus is not regarded: Massarias (as learn-venxsedio. ed and as well versed as he was in the Plague ) is not ne, c 7. able to convince men : Not Rodericus Fonseca at Lis- Massains de Pent. 1.1. bone, not Septalism at Millain, not the cautelous Forre-Roderic a fine, who let them blood in the Peft at Delph within Fonfeca in apeight hours after infection, though it were occasion'd pend ad from famine and misery, and that with good success: febr. p. 354: not the president of Hosman in the Plague at Norimberg: Septal de pest.

Not the constant practise of the Egyptians, who in all Forrestm Obs. pestilential diseases, and pliques do bleed largely the sick 1.6. obs.17. parties, as Prosper Alpinus relates; and whose example C. Hosmin. and experience did so convince him, that in that excel. 1emm. 64. lent Book of his de Medicina Methodica he thus ex- Profper alpin. presseth himself forthe cure of pestilent Feavers, and de medic. Egyptior.l.2. the Plague. 'S Itaque taxata a vo lenitorio Pharmaco, c.7. p.54. e ad vacuationem sanguinis declinandum. Primo secta Prosper. Alpin. interna vena cubiti dextriin ea copia mittatur; quam 15.c.9. vires permittent: & in altero die, sicorpus sanguine abundaverit, & vires permiserint, ex altero brachio evacuatio sanguinis erit repetenda: in pueris, 💞 in e viris, & mulieribus albidioribus sanguis mittendus itidem erit copiosus cruribus scarificatio, ex qua scarificatione, facta sanguinis evacuatio in febribus pe-6 stilentibus est utilissima, quia cum ipsa quantum sane guinis

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guinis volumus, evacuamus, sine virium magna jactura (quod e longinquis partibus educatur) sine violenția, & quod maxime in hisce febribus videtur desiderandum, e quoniam ex ea evacuatione a supernis partibus adinfere nas fiat revulsio: Unde mirum non est, si nos sæpius in hisce agrotis vigilias, vel dolorem capitis, vel delie rium, vel surditatem, vel alind symptoma simile continuo sublatum viderimus, prasertimque scopiosa fa-· Ca fuerit evacuatio. De hac Oribafius ita scripsit: In lib.7. c.20. c Et sane dum pestilentia vehemens Assam deprehendisfet, multosque perdidisset, meque etiam morbus attigise set, secunda morbi die remissione febris facta, crus · scarificavi, duasque libras sanguinis detraxi, hacque de causa periculum vitavi. In pueris & infantibus in quibus una cum pestilenti febre vel exanthemata vel veriola apparuerint, perpetuo summam utilitatem ab c hac evacuatione subsecutam vidimus; qua Ægyptii. · Arabesque nullum utilius præsidium in bisce febribus esse longa experientia cognoverunt. Not all this can either justifie or excuse a Galenist unto these Helmontians: I add the opinion of Erastus who lived in Germany, which Climate and Nation may feem to correspond better with the English; after be had given his reasons for Phlebotomy administred in the beginning, in plethorick bodies, and where nothing doth contrajudicate, especially in such as were used to bleed, or had any sanguinary evacuation at the nose or other parts, stopped on a sudden: and after he had refuted the Arguments of fuch as would cure the Pest in his time with Alexipharmacs and sweating only; he adds, cc Equidem una consuetudo fere prastare videtur, ut e nostris hominibus venæ sectio in hoc morbo minus nocerewideatur. In bac peste prorsus multi ex rusticis e vicinorum pagorum nullo alio remedio affugerunt. I might cite the judgment of many more in this case, as Rondeletius, Mercatus, Trincavellus, Jo. Coftaus, Altomanus, Pereda, Andernacus, Sarracenus, Massa, Mongius,

Th. Braffiss epist. 25.

Mongins, Paschalius, Mercutialis, Zacutus Lustanus Citanturab Bayrus, Carolus Valestus du Bourgdien, Joel, Thewartius Librando a (upon Ballonius's Epidemia p. 50, 51.) Hieronymus de pest 1. 3. Rubens upon Celsus: Of the Ancients Actius, Avi- 6.3. §.1. cenna, Avenzoar, and that Latine Hippocrates. C. Celins who particularly sayes, si vires sinunt, sanguinem c. Cels. Medicin 1.3, c. 7. mittere optimum est; pracipueque si cum ardore febris est. But I conclude with this affertion, that in the

Controversie about Phlebotomy in the Plague, the number of them that defend it exceeds that of those which oppose it, and their learning, judgment, practise, the reasons, the Experiments they alledge at least, equals what their Adversaries can pretend unto: Some Arabians have advised in the beginning of the Plague (before the disease hath impaired their strength) that the infected should bleed even until they swooned: And Platerus informs me, that some having purfued that counsel avow that

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they have cured many, and therefore dillike all minute Phlebotomy in comparison of that which is so copious: thus Bayrus in his Treatise of the Pest commands, that if the Patient be robust, plethorick, and the pestilential Feaver be accompanied with a violent putrid Feaver; he bleed largely. But to deal candidly in this affair, I do think that of the Germans the molt are averle from Blood-letting in the Plague, and depend upon Sudorifics.

Because our Helmontian doth so opiniater it about the Plague, and would reduce all Feavers (almost all diseases to be cured like it ) and insults over the Galenists for their ignorance in the cure, and upbraids them with their ill success in that malady. I shall briefly represent some of the reasons of their evil success and the arguments they urge against sweating in all Pelts

Cæterum in contrariam fententiam abount complures alii, iidemque doctiffini Medici, docentes omnino secandam esse venam, nec minores paucioreive adducunt selices successus. Hieron. Rubem in G. Celfum .. 1.3. c 7: p.140.

Maffarias de Pell. 1. 2. inter opera) p. 531. F. Platerus de febr. (inten-

opera) p. 161.

Pests, in the beginning, and process of the cure; as also

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sumup their practise about Phlebotomy.

When I consider the general desolation which the Plague hath made in all parts of Europe, notwithstanding the various waves, used for the cure thereof, and that Germany and the Netherlands can no more boaft of an infallible cure, no nor of a better success than Florence, Venice, Rome, Naples, Paris, or Sevill, methinks it is apparent that the recommendation of Medicaments or Methods of curing in the Plague ariseth from the observation that some by the happy use of such a course, or such a Medicament, have (perhaps amidst dingerous and seemingly deadly symptomes) been recovered: And herein septaling, and Massarias, and others. lay as much for themselves, as Mindererus, or Sennertus: And what Celsus saith of Hippocrates, Heruphilus and Asclepiades; I cannot but call to mind when I restect on the several Methods of Physick endeared unto us by judicious Practitioners: Si rationes segui peli= mus, omnum polle videri non improbabiles: a curationes, ab omnibus his ægros perductos elle ad sanitatent. So just I am to those excellent Practitioners: It is certain that in Phylick we do oftentimes commit the Fallacy of non causa pro causa, and attribute thole effects to one Medicament, or Method: which either did but accidentally enfue thereon, it contributes nothing to the effect (but only happening to be infifted on at or before the time that the Phonomenon discovered it self) or only removing something that hindered the natural production of the effect, or only acting as a partial cause therein; or meerly strengthening or making room for nature that the effect might more easily result. Thus we directly yield the glory of one or more successful cures to a wrong original, and delude our selves and others not only with vain hopes in the remedy or method, but with new Hypothesis railed upon these frail foundations, and with the

C. Celsus in pref. Medi-

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the same levity reject the Medicaments and Methods of others, with which we celebrate our own; nay oftentimes with more; for those foundations are most sure which are laid by the most men, if they be judicious and observing, and have endured the test of more ages and tryals. If presumption and arrogance could have entombed the Pest, the most insolent but worst of Physicians, that is Van Helmont had secured man-kind against its ill effects: and what man could have dyed, or languished under the Gout, or other Chronical distempers. if the Rhodomontades of Paracelsus, Penaltus, Severinus Danus, had contained any solidity? But experience hath shewed us that we have only exchanged, not amended our practise, the Tinctures, the Essences, the Elixirs, however graduated, or how gloriously soever denominated, do not exempt us from that condition humane nature is subjected unto; the general intentions of curing cito, tuto, jucunde are old: the performance now answers not the pretenses: the Athanasia, Jucunda, Mysterium, Ambrosia ( of which you may read in Galen) If I were to chuse my Medicaments by the found they make, would feem as good as the Anima Auri, Tinctura polyaceia, or Pulvis pestifugus; and better than the Alexistomachon, for that like Αλεξιφάρμακι, Αλεξίτικος, Αλεξιπύρετ , would affrighten me, as if it were a Dedicine to drive away a mans thomach. And if I were to word my discourse I would more willingly use a known tongue, than an unknown, and write Secretary rather than the Universal Chara-Ger: It I cannot acquire knowledge above others, there is more of vanity than glory in the oftentation of a new-fashioned ignorance. I write this because I am convinced, because I do not believe that there is any thing more intelligible in the modish word venome, then in the profound, sordid or superlative, putretaction wherein the Galenists placed the 19est: If such a putridity be unimaginable (which yet is but

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graduated above what we fee, and unto which tis evident that diseases sometimes gradatim do arrive) it is certain that there is no fuch thing as the Arfenical or Napelline porson in the Deft; but somewhat forsooth Mindererus de Analogous thereunto, as Mindererus and Sennertus affure us : and here we are put upon Gradations again by which Ceruffe and Lithargyre, Napellus and Tithymal, Cantharides and Dipsas are to be transmuted into, or graduated up to Arfenic. Most assuredly in this Age the Chimaras have exchanged their pasture, and being cloyed or starved with feeding upon the Second in= tentions, they are now luxurioufly dieted with Metaphois and Similitudes. I would not therefore have this following discourse to be construed as an Apology for the failures of the Galenists, but of all judicious Practitioners, even of different principles, who intermeddle with the Plague.

Senners. de febr 1. 4. C. I.

peff. c. 3.

Anton Benivenius obs. Medicin. 6.54 B. Bloventius in notis ad P. Poore de peff p. 154, 355:

The first reason of their miscarriage, is the difficulty or rather impossibility of discovering of the Plague oftentimes in its first approach, and sometimes the disease continues and makes a progress hopeful and promising for several dayes: and then manifests it self in the Sudden death of the Patient : of the truth hereof i need no instances: the only care a Practitioner can shew is (after that frequent Funerals have informed him of an approaching or raging Pest ) to tend his Patients whatever the distemper be (little or great) as if it were the Plague: and yet that this supposition is fallacious, I can demonstrate out of the Histories of several Plagues, particularly that of Vicenza, and Breda. Here then our Physician is no more to be blamed, than he is for not being an Angel, or a Deity.

Another reasonis, that the sick parties do not come to our Practitioner upon the first and smallest sense of the disease; for after the Rest hath seised upon them a fem few hours (eight or twelve hours) Sennertus himself could not cure one in an bundred : and of this Era- Sonnerten de ftw complains (who was for bleeding) that most that died came not unto him till that the Plague had too far seised their spirits, and debilitated them so as to render all means ineffectual, though he tryed Sudorifics, Eraftus ep.25. and complyed with all Hypothesis in his practise. I must p. 90. here note that the diverlity of Plagues, as to their nature, and continuance, makes a greater latitude in the opportunity or timing of Medicines, than to restrain it to eight or ten hours; but this cannot be known till the Plague hath lasted some while.

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A third reason is the great difference betwixt the Nature of one Plague and another, so that neither one Method nor the same Medicaments will serve in all Pests, no nor in any two hardly: besides the particular diverlification which the Pest receives according to idiolyncrasy and constitution of each infeded person. And for this reason Micolaus Ellain in his Treatise of the Plague (commented upon by the renowned Guido Patin) refused to write down a special cure of the Pest in that book. Sc Quantum ad curationem Spectat, N. Ellain de eam attingere nolui, quia periculo sissimum est ex solis gest. apud Guibers. Med. universalibus regulis curationem instituere, idemque Offic. p. 533. calopodium singulis quibusque adaptare. Juris peritorum effatum est, Theorias generales non informare animum practicum, qui consistit in singularibus. Si c hac propositio in jure vera existit, potiorem locum in 6 Medicina habere debet, in affectu presertim adeo anomalo catque insolenti, cujus ut Protei, nunquam facies eadem est. Nulla enim pestis alteri similis est, nisi in uno, quod scilicet ea correpti maximam partem intereant. Constans opinio est, tot fere species morborum pestilentisum esse, quot annorum, quibus in vulgus grassantur. Varianda proinde curatio ex affectus, causarum, symptoma : tumque varietate: ratioque habenda temporis, regionis, Sexus.

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e fexus, atatis, temperamenti, peculiarisque cujusque nauræ (quam Græci idiosyncrasiam vocant) pluriumque aliarum conditionum a Medico expendendarum. · Insignis igitur abusus foret in peste curanda eademuti Methodo. i. e. As for the cure of the Plague, I would not intermeddle with it; because it is a most dangerous thing to form a particular practife out of general rules alone, and as it were to work all peoples shooes upon the same last. It is a Maxime amongst the Lawyers, that General Theories do not accomplish a Practitionr, whose business lies in particular and promiscuous Cafes. If this be true in Law, I am sure it ought to hold good in Physick, especially in a disease so anomalous and so seldom happening, as this is, and whose Type is as changeable as that of Proteus, never exactly the same. For no Pest ever was like unto the other perfectly, except it were in this one qualification, that most that are infacted dye thereof. It is a constant opinion in many, that there hath been, and alwayes will be almost as many forts of Pefts, as there have been, or can be Pefts: And therefore the cure thereof must be varied according as the disease, its causes, and symptomes vary: and particular regard must be had to the season and course of the year, the countrey, the fex, the age, the temperament, and the individual constitutions of persons, and many other circumstances which a judicious Physician must consider. Wherefore it would seem an abuse and imposture to prescribe or follow in every Pest the same Method. The truth of which Affertion is fo univerfally affented unto, that Mindererus doth caution us Minderers do diligently to attend unto the course and symptomes of the Flague, and to vary our Method and Medicaments accordingly, and tells us that in individual persons (and not only in the Plague it felf) we shall find reafon to guess that the pestilential poyson admits of an unexpressible discrepancy and variety; And partly from its native variety, partly from concurrent circumstances

With hima-Brees Gerardus Columba de febr. pestil. C.24. P.253

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in the Patient, and Ambient, &c. and combination with fundry humours and intire commixing with them, it grows up and is improved into new forts of And from hence, he faith, ariseth a grand difference in the cure as well as effects of each Pest, so that a multitude of tryals must be circumspettly made, the motion of Nature in the recovery of the Patient observed, and many die, or involuntarily, yet unavoidably, be dispatch'd, before the right Method can be known. Hoc enim in incognitis, usu persæpe evenit, ut non nist aliorum damno sapiamus, & excomplurium strage quos morbus perdidit cateros servare discamus; nihil interim landis Medica facultate ab hoc amittente, utpote que plus · fludii in incertis observandis, quam in lucidis jam & perspectis malis, commodo con silio amovendis removendisque sollicita impendit; etenim & Magistratus ad occultum surem deprehendendum debita adhibens media. non minus suo officio fungitur, quam si bunc ipsum comprehensum, capite plecti aut morte multari praceperit. Since then it is manifest that there is so great a variety in general amongst Plagues, and lo great a discrepancy in particular Plagues, arising from individual constitutions and other circumstances, since the different motions of Nature are such, that sometimes it is terminated happily by sweat, sometimes by stool, sometimes by urine, or an hamorhagy. Since it is a disease that so seldome happens ( especially here among st us ) that 'tis impossible for any man to acquire a practical dexterity in knowing, or curing it: there is not any intelligent person will condemn the Galenists, or other prudent Physitians for ignorance; but rather deplore the misfortune of Man-kind which is subjected to so monstrous and pernicious a mulady as this is; and by a pious and penitent life rather study to divert the Divine judgment, than to depend upon what is Hu-

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These discourses will satisfie any man of the vanite of those pretences of an Universal Medicine for all Plagues; or of acquiring any superlative skill by the diffecting of one infected Body, or feeling one fort of Plaque twice or thrice; whereas not only each Pest differs in specie, but often in individuo: and undoubtedly, according as the venome, and venenate symptomes differ, so would the several bodies it dissected.

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As to the reasons why the Galenists do not suspend the cure of the Pest intirely upon Diaphoreticks, and repeated sudorifies, I find that they do urge thefe.

They do conceive that a Physician is obliged to be the Affistant of Nature in all diseases, except it manifestly appear that the acteth irregularly, or by way of such an irritation, as to comply therewith were to destroy the Patient: they know what their Method obligeth them unto 3 and what necessity doth often put them upon: that some diseases are cured with more facility than others; that 'tis the nature of some diseases not to be cured at the same time, nor in the same manner: that as men are oftentimes forced to make the best of a bad market, so in some indispositions they know what they desire, but knownot how to effect it, but by means extraordinary, and by a greater difference to the distemper than it is their inclination to submit unto: 'tis not igeff, sed quibus norance and folly, nor the want of generous Medicaments, which makes them comply, but a tenderneß of the lives of the fick, and the discharge of a good conscium. Galen. 6. ence ; which last obligeth bim alwayes to the safest way, and not to follow either doubtful and questionable opinions in Phylick (which may pass for probable, if Qu. Medico that be such against which it is one thousand to one that gu.7. S.2. it is false ) or to prescribe Medicaments which the

Scire enim quid fieri oporteat, mag. rationibus illud efficias, id vero ardum. m. c. 2. P. Zacchias id ibid. 5.7,8 vanity

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rules of Art and Experience do not justifie. Wherefore they do imagine that a Physician ought to imitate Nature when she does well (and well she does, when she cures the disease) and since Nature doth in sens= ral Plaques acquit her felf sunday waves, that therefore they ought not to confine themselves to one: Particularly, fince some Plagues have been cured by spontaneous (a) Hamorrhagges at the nose, epist 25 p 97: others by stools, 'tis most irrationable to expect that c. 2. & Theany should do otherwise in so dangerous a malady, than ad Ballon. to consider the ultroneous emotions thereof, and accord- Epidemp.50, ingly to demean himself.

Secondly: Seeing that (b) all sweats in the begin- (b) Hippocr. ning of a disease are rather bad, than good: since in sect. 4. Aphor. the Plague few or none are ever freed (c) by sponta- 36,37,82 42. neous Sweats: fince Nature takes (d) another course p. 99. by discharging it self into the glandules of the Ears, (c) Brast. epist. Arm-pits, and Groin: They do not think that they 25.p.9/ c.a. ought to pursue that Method. 66 Ex his arbitror, pa- p. 98. e tet, Sudores statim ab initio febris hujus per vim adeo Erast. ubi sue calidorum medicamentorum evocatos, non tam utiles pra. p. 99... esse quam aliqui putant. Siquidem spiritus evacuantur, vires dejicinntur, sanguis agitatur, turbatur, maegisque acuitur febris, quod subtile est in sanguine excernitur, sieque crassior intus relicta materia citius & facilius interficit. Ideirco magis videtur factum 🐠 consilium eorum approbandum, qui ab bis medicinis ca-"lidis abstinent, sive sudent ægri ab initio, sive non fudent. Certum namque est, Sudorem sponte sub inif tium morbi prodeuntem, diaphoreticum & symptomatiscum, non laudabilem & criticum effe.

Thirdly they argue; that since there is such danger least the Patient infected should dye for want of strength before the disease be cured, and that above all Others the vital indication to preserve the strength ought

51. Schenking (ex Parao) 1.6. p. 770.

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ought to be most prevalent with a Physician, and regulate him in the administring of his remedies: fince the regard hereunto makes them to quit their usual course of dyet, and even compel their Patients to eat plentifully, and drink wine ('tis no Helmontian Proposal, but transmitted to as from Antiquity ) they conceive it not fit in the beginning of the Plague to debilitate the fick with a violent and tedious sweat (perhaps to be reiterated twice or thrice in twenty four hours ). whereby the spirits will be extreamly diffipated (much more than in Phlebotomy) the humours good and bad promiscuously evacuated, and the blood and groffer humours (which are not exhausted by Smeat, and in which commonly the Pest is seated, as is manifest from the Botches and Carbuncles) continue infected fill. Sane spiritus per sudores affatim & copiose vacuari satis indicant prostratæ afflictæque vires post longum sudorem: Crasse & inquinati sanguinis nihil aut particulam exiguam educi, probant accidentia, quæ fere omnia fiunt post suderem deteriora.

Ereft.ep.25.

Fourthly, Though they do very much commend the intentions of fuch as would prefently and without any delay expel the morbific poyson; yet they conceive that where the Plague ariseth from previous evil humours congested in the body by an unseasonable year, evil diet, or the like, that then the case differs much from what it is when it is contracted by a forreign contagion; and therefore whatever reasons may be alledged in the last case, they cannot admit the Method as universal: they do apprehend that in the first case the putridity is incorporated and become as it were innate to the mass of blood, and is no more to be eliminated by Sweat, then mustines in drink is exterminated by its working out the yeast: Besides, they do not perceive that the sick receive such benefit when Nature discharges it self into the Skin by the Spots, or Tokens,

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that they should imitate that operation by promoting sweat: they are afraid that potent sweats may divert Nature from her usual and intended course of discharging it self into the Glandules, and whilest a double evacuation is purposed by the Physician, the Patient may find the benefit of neither, the sweat being so powerful as to disturb that other motion; and the humours in which the venome is incorporated being so gross (why else should Nature never take the more facile and expedite way of the Skin, but the more difficult of the Glandules?) as not to be exonerated in that manner.

Lastly, Supposing the Plague to be a venenate dise ise they do not conceive that all poysons are to be cured one way, and that by sweat, especially as soon as ever they aretaken: much more if they be of a septic nature: they do not believe freating to be the remedy for Arfenic, or Lapis infernalis, should any take them. But if it were, yet sometimes there is such a plethoric habit of body, and the veins are so distended either naturally or through the febrile agitation of humours, that 'tis imprudent and dangerous to promote sweat, till Phlebotomy be premised: for thereby the febrile heat will be mitigated, obstructions removed, the blood ventilated and capable of a further rarefaction in order to sweat, and transpiration promoted, and Nature inclined to sweat; for bleeding doth not draw in the humours, or poy fon, but carries it out to the circumference, as experience doth testifie, and consequently is rather subservient unto, than opposite to the indication that others go upon.

These are the most folid Objections I have met with upon the subject: in which whatever is suggested is not so to be understood, as if the Galenists did not know that their Adversaries use or pretend to use cordial

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dial and Alexipharmacal Diaphoretick .: as on the contrary none but this Baconical - G. T. would suppose, that when a Galenist speaks of Phlebotomy, that he intends to use nothing else. Those judicious persons do consider the variety of Pests, that some of them are by forreign contagion, and feile upon healthy bodies: in these they are willing that the venome be eliminated presently by sweat, except the Plethoric habit make it necessary to bleed first, and then they sweat them afterwards immediately: taking all imaginable care for to preserve their strength: they also know that in such times as the Patients have been used to an ill diet, and debilitated through poverty and milery, that in such cases even Galen would not allow bleeding: for how requisite soever it may be for the disease, such persons cannot bear it: They know that some Plagues are attended with little or no Feaver, yet attended with symptomes dangerous and mortal; in these cases they are for Cordial-Alexipharmacal Diaphoreticks, and promote sweat as earnestly as any Helmontian: in others the Plague is attended with a Synochus and putrid Feaver, in these they divide their cures, and regard both the Feaver and the pestilential venome, &c. according as the strength of the Patient will bear (they consider not only his present but future strength) they proceed to Phlebotomy: sometimes they observe the Plague to be so gentle, that the infected can go up and down and feels little or no indisposition in himself: in this case they only continue the motion of Nature by mild Alexipharmaca, that the Botch or Carbuncle do not firike in again, and perform the rest by a follicitous Chirurgery. In fine, as there is nothing more rational than all their solicitude in cures: so they know that in so desperate a disease, there is no course to be lest unattempted: the way by Alexipharmaca and Sudorifics come from them, and is properly theirs: but they urge me method generally in any disease almost; knowing that

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that the same distemper may be cured several wayes by men proceeding upon contrary indications, and yet the art not violated : and in the Plague, as they Hippocrate. know the great variety thereof in specie & indivi- feet, cum duis, so their directions leave us in a great latitude upon notis Vallessi, emergencies: They understand that saying of veljus; P. 7.8,739. Mam quo celerius ejusmodi tempettates corri= c. Celsumepiunt, eo maturius auxilia, etiam cum qua= dicin. 1.3.c.7. dam temeritate, rapienda sunt. As also that, de febr. pest. Tum eadem omnibus convenire non polant, te= 1d. ibid.c.o. re quos ratio non relituit, temeritas admoat. To conclude, if there be any thing that requires a dexterous Physician, 'tis this disease: And if any thing can make him such, 'tis the diligent reading and understanding of the Galenists; who have in this case transcended themselves, and replenished their discourses with so prudent cautions, such excellent observations, and experiments, that may raile admiration in all that are conversant therein, and satisfie the World, that those motional men, following the ancient Methods of Science, have out-done all that ever the ignorant rash Experimentators of this Age could imagine. I have a long time designed a Collection of all the choice Experimental Writers upon Epidemical diseases, whether pestilential, or not; together with the Histories of dileases that are otherwise of a facile cure, and are changed by the mixture of a pestilential venome; for as there is nothing more dangerous and intricate than such diseases, to there is nothing wherein the generality of Phylicians are less acquainted: 'tis an effect of the novelty and curiosity after knick-knacks which infatuates this Generation, and will ruine the next: there is so much of pedantry in reading, 'tie fo much more pleafant, and divertive to talk of, to make Observations about freezing, then to read over Galen de typis, that I do not wonder to find D. M. not to understand what the Type of a disease is: but I do wonder how he Durst

fay I was intollerably ignorant in the Budimenta of 19hytick, for speaking as Galen, and the best Phyficians do: I may accommodate to these impudent scholiasts that saying of Hippocrates. They that are fick, and do not know themselves to be so, have an imbecillity in their Intellectuals. Such men are possessed with a desire to prepare their own Medicaments, contrary to Law : and neglect the study of necessary and useful Books in their Profession, which is contrary to all Reason: 'Tis easie to foresee that the nex Age will scarce be furnished with a wise statesman, Physician, or Civilian; and perhaps scarce yield an accomplished Divine, or an intelligent Sheriffe, or Justice of Deace. And this evil is become remedile & by reason that the contempt of University-learning. and neglect of studying, hath so decayed the Trade of Book- selling, that no manthat is defirous can furnish up a Library; which I find too true, being not able to repair the los of a choice Collection of Physick-books. which were confumed by the fire at London.

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Having thus explained the nature of the Peft, I return to the Argument of-G. T. which gave occasion thereunto. That the Pest is neither a France Form, nor indeed a Feaver at all, I have demonstrated: That there are some Pests in which Phlebotomy may be used. I have also made evident: As also that it was not without Singular pzudence that the excellent and learned Phytician Doctor Willis did pronounce that Phlebotomy was seldome, and not with-Resedr. p. 235 out great caution, to be practised in the Pest: because the blood being to much exhausted, and the vessels subsideing, the necessary inclination to transpire and sweat, is not so easie to be promoted, or continued. I have likewise evinced that the Peft doth not consist properly in a Poyfon, but in somewhat Analogous thereunto a and consequently since similitudes are not identified.

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tified, 'tis foolishly argued by -G. T. that because upon the taking of Poyson Phlebotomy is useless: there= fore it is so in the Pest. But neither is the antecedent true alwayes; as any man acquainted with the Medicinal History of Poysons doth know : for although upon the first taking, they are to be attempted with peculiar Antidotes, yet if afterwards they produce a Feaver in the Patient, or if there be danger of it, Phlebosomy is both used and allowed, by the Authority of Paulus, Avicenna, and Haly-Abbas, and other eminent Physicians: particularly by J. Cesar Claudinus in his sos de sec. ve-Emperica rationalis 1. 6. sect. 1. c. 1. It is also perspi- næ cubiti in enous out of what I have said, that 'tis false to say that febr.putr.ma-All Feavers, be they ill conditioned, or others, have any 142: resemblance with, or are to be cured like the Dest: much dess is it true of most Maladies whatever. as this Impertinent goes about to prove it thus: Because there is quiddam deleterium in them, or a certain venenosity. If he take Quiddam deleterium and a certain venenosity for one and the same thing: it is most false: shew me the effects thereof such as are visible in the Pest, and I may grant there is somewhat Analogous: but I cannot see any such thing, nor that they need any fuch such cure: It is possible --- G. T. may with his Pepper-drops, or Essence of Ginger, and such like hot Medicaments drive out some Pustules in the skin, in most Maladies (and even where were none) but I shall not conclude thence that either the indisposition was venenate, or that he did impoyson him, though that be a facile thing to do where the same c. Tacit. Anperson acts the Doctor and Apothecary; and usually nal. 1.4.8 done heretofore as any School-boy may know out of I. xii. Tacitus: or Tully, pro Cluentio, where two are men- W. C. may learn what tioned, the one the City. Phy soian, who was called Medicin cir-. Medicus; fuch were retained by Sulary, the other is cumforaneus termed Pharmacopola circumforaneus, that is a Doctor is out of Menagim's who kept several Markets, making and vending his Amanitat

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own Medicaments, which gave him the opportunity of gratifying Oppianicus his Mother in law: a courtesie the other had oftentimes done for him before: I believe there were no Apothecaries at that time in that place, but in 1220, or 1221. when Phylick was first made an University-Faculty, and Doctors thereof created in imitation of those in Theology, then were the Profession of Physick, and that of the Apothecary made distinct, and that with so much caution, that it is a question amongst the Imperial Lawyers, Whether a 19hv= sician may bave any manner of Contract with an apothecary, though to drive on other Traffick than that of Pharmacy? In the Lombard-Chronicles there are many cases of Princes , (and no doubt than others ) by Physicians: there was one Sedechias in the dayes of Charles strnamed the Bald, in France: and in the reign of Queen Elizabeth one Do-Ctor Lopez, and Giulio. If some mens reading extends not to this knowledge, I would have taught D. M. and W. C. this and much more had not the Artifice and interest of some men debarred me from publishing it. If any man can shew me any Dispensatory made by any Furopean Physicians (fince there was so much as a Graduated Doffor) that was previous to the distinct Profession of apothecaries, I will own then (though it be a certainuntruth ) that the practise (I do not say practifing) of the Apothecary in the Quartane, was contrary to the rules of Phy fick, and the case well proposed by D. M. All men are at the mercy of such as write what they will, and defame as they please, and permit not others to vindicate themselves, nor undeceive the World. 'Tis ungenerous to pinnion a mans hands, and then beat him. In reference to that Controver se, I add that the statutes of the Colledge com-Landin. Mill. mand the Physicians to fend their Bills to an honest Apothecary: And our Laws make the Colledge Judges of all Receipts, as well as Methods of Phy fick: which AG

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Att as it conforms with the general practife of Europe. so it is very prudential; for hereby provision is made not only against noxious Medicaments (and the bigh prizes of Arcana) but illegitimate Methods of practile, by which last it is as easie to destroy a man, as by poyfon and more privately: How the deligns of the Experimentators will consist with our Laws, and be accommodated to them, I know not: I know a Physician may be tryed upon giving his own Medicaments it the Patient miscarry; how he shall defend himself, I know not: I have not seen any reason alledged, that is likely to convert the Magistrates throughout Europe to permit it: or to gain a repeal of the two last Edicts in Denmark against it: 'Tis an evil president to dispute against wife Laws: 'tis worle to act against them: and what consequences it will bring upon the Land, to fee one Profession retrench upon another, let the Lawyers judge: The beginner of this Novelty, the Lord Bacon, stopped not at Natural Philosophy, but carried on his humour to attempt or project a change of our Laws. I do recommend it to the consideration of our Sages in the Law, that if Physick, Divinity and other Faculties be overthrown by a company of Wits, whether it be probable that they shall long continue free from the attempts of the Omniscient-

But I shall resume the examination of the remaining Arguments of my Adversary.

Grant of the reason of the feature of the Feature, indeavouring to cool those that are in a

fcorching heat, by breathing a vein,

est them know, that a Feaver, whose essential nature is to be inquired into

for the use of man, is very errone-

coully defined an Accident; for a

Cannot an Accident be the product of a fore-going cause? Besides, who even defined a Feaver so as to make its Genme to be Att Accident?

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febrile heat is certainly the product of a foregoing cause which is primarily to be searched after, then whatsoever depends thereon will quickly varish.

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Now this cutting an hole in venal vessels for the removing a bare Quality, is all one as if one should clave out of the Pot ready to boil over a spiritous, or fome precious Liquor therein contained, to the intent it may thereby be quailed, neglecting to withdraw the fire, the impulsive occasion of the violent motion e made therein. Do not they take the like absurd course, who do think to cool the body in a Feaver by throwing away whole Porringers of the Nectar of · life, never looking after the ablation of the Causoe poietick cause and focular matter fited about the Stomath , which makes an estuation and efferve-Scence in all the other parts. That way of frigidation which pillageth the vitals, increasing the malady, only obliquely abating a tedious quality, is never to be approved by a Legitimate Physitian. He that will bring to a moderation the finger excessively heated from a thorn impacted therein, must extract the fame, otherwise he will take a wrong course by the use of meer frigefactives. So he that will positively refrigerate in any preternatural beat, must eliminate that · Spinous, aculeate, acid, acrid matter which goads the Archam, incensing it that it becomes exorbitant, fretcting, raging, Heautontimorumenos, gauling it felf at the presence of that which it abominates, never to be c pacified till it be excluded, or some extraordinary Sedative given (I mean not Opium vulgarly prepae red ) which may for a time affwage its fury till it have leisure to thrust out the unwelcome guest.

I could wish my Adversary, instead of consulting the Novum Organum of the Lord Bacon, had been conversant in that more ancient one of Aristotle; he had not

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not then committed for many errors in point of Ration eination, as he now does, which renders his discourse intricate, confused, and oftentimes impertinent, to the great distraction of his Reader, and vexation of his Antagonist. He perpetually mistakes through an Ignorantio Elenchi: he never apprehends what he opposeth. That the Galenists do define a Feaver by a preternatural heat diffused through the whole body, istrue: They are contented to call that a Feaver, which the vulgar does so, and accordingly to define it: Not but they distinguish in Feavers the Material and Formal cause thereof; as also the several Efficients thereof: and in their Method of curing, except necessity put them upon another procedure, they do alwayes, and are obliged to do so by the Rules of their Art, to remove the Cause of the Feaver: and this is notorious to all that understand the first Elements of Physick. They consider the evident, occasional procataritick Causes: they consider the Antecedent causes, which though they are not the immediate and conjunct Causes of the Feaver, yet dispose unto it; and are of such importance as that they may often degenerate into immediate and conjunct Causes: and, which is more, in the Cure they do not only regard the Cause which gave birth unto, and produced the Disease, but that which doth foment and continue it, and that which may produce or increase Censeri debet causa non quæ facit, aut fecit solum, Valles meth. sed & que faciet nisi quis obstet. And although the med. 13.6.1. curing of the Disease, or Feaver, be the object of their deligns: yet As all Wife men consider by what means the ends they propose to themselves may be effected, so do they deliberate how they shall effect their designs: and that is by removing the Cause of the Malady: But as in other designs it frequently happens, so here they often meet with impediments, which must be removed, before they can prosecute their intentions by Direct means. Upon this account they are forced upon many

ny actions which they confess are not immediately conducive to the cure of a Feaver, which yet they pursue, because without voing so, the indisposition either could not be cured, or not with such safety as becomes prudent persons. Few of them ever bleed that I know of meerly for refrigeration, and the extirpation of the formal heat, without regard to the material cause of it, which is to be concocted and ejected by Nature. Though Phlebotomy be but one opera= tion, yet it produceth sunder effeits in the body, and in order to each of them is both indicated, and pradised: For it evacuatesh that redundancy of blood, which frequently occasioneth diseases, alwayes is apt to degenerate into a vitious morbifick matter during the Feaver, and by an indirect and exorbitant motion to af-Act some or other principal parts to the great danger, if not destruction of the Patient: upon this account we do use Phlebotomy in Feavers sometimes to dianinish the Plethora, and so to prevent the violence of the succeeding disease, and dangerous symptomes that may infue; and then the veins are too much diffended, to facilitate and secure the operation of subsequent Medicines that are used to evacuate the Antecedent Gaufe, and to maturate and expedite the continent morhistick cause: Besides, it promotes transpiration incredibly, gives a new motion to those humours which together with the blood opputig and indanger the internal and principal parts, it diverts them from the head, and draws them from the heart, lungs, stomach and bowels into the babit of the body, whereby Nature being alleviated profecutes her recovery by maturation and expulsion of the peccant depraved matter, deducing to its propen fate that which is femi-putrid, and not irrecovenably vitiated, and separating first, then exterminating what is incorrigible : So the Patient recovers. Nor is there any thing more true than this, which every Pra-Eitioner may daily observe in his practise, that Of all the

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TY PY Ofall the Hedicaments which are vied by Physicians, villes. Meth. there is not any may compare for its efficacy and med. 1.4, c.2. utility with Phlevotoning: so expedite, so facile, and so universal is it. The universality of its use appears herein, that it evacuates the redun= dant, it alters the exorbitant Fures of the pec= cant or deviating bumours and blood: It relar= eth the vellels and pozes of the body, and refri= gerates the babit thereof; And therefore is so ab-Tolutely necessary in putrid Feavers, that though I do not fay they are incurable without it, yet I pity the languishing condition of fuch as omit it, the violence of the lymptomes being increased thereby, and the cure procrastinated, to the great trouble and hazard of the fisk, and his great detriment afterwards; for you shall ordinarily meet with a flow convalescence, and the blood be so depraved by so long and violent an effervescence, that it becomes remediless, and degenerates into an evil habit of body, Scorbute, Dropsie, &c.

This being premised, (which is more clearly proved by Experience than Reason ) I answer to his Argument, that we do not go about only to refriagrate the Patient, but to concoct and eject the morbifick matter: that we take the most besitting course to exterminate that spinous offen live cause: and as upon the prick of a Thorn, if part lick in the wound, and be buried therein, we proceed to maturate and bring to a paculency the vitiated blood and humours innerent in the part affected, and with the suppurated maiter draw out the fragment of the Thorn; lo we do in Feavers, (where the depraved humours are not to eafily leparated and extirpated, as in the prick of a Thorn) maturate and eject the morbifick cause, and thereby atchieve the Cure: And I do profess my self to consume with the Ancients in their Opinion, that there is a great

Id autem ita esse aperte intelliges, considerans, quæ partibus, in quibus suppurationem molimur, contingunt. Ea enim alteratio simillimæ est concostioni, quam in materia putridarum sebrium expectamus, niss omnino est eadem. Pilles. Method. med. 1, 4.

Galen, meth.

great Analogy betwixt the generation of the Hypostasis in the Urine after a Feaver, and the production of purulent matter in an Apostimation; and that Feavers are but a kind of Abscesse in the mass of blood: for the proof whereof I do remit my Reader to Ballonius, de Hypostasi Urinarum. Amongst the Ancients I find two wayes commonly practised to extinguish this Febrile Heat, by a course corresponding with the usual

wayes of extinguishing a fire; which are is passed to by substracting the fewel from it: thus they did Phlebotomise at once till the Patient did swoone: the other is ocion, by quenching it: thus they gave them cold thatet to drink largely, until the sick grew pale and fell into a shivering: this last was not practised till there were manifest signs of concotion: But its observable that upon either of these Medicaments, they did expect that happy is up, that Nature thereupon should presently discharge it self by sundry evacuations of the Mozbistick matter: so that they did not thereby intend bare resignation, but the extermination

And thus much may suffice in answer to this Obje-

The last objection he makes is this, as I shall form it.

\* botomy, are either Evacuation of the redundant blood in a Plethora: or, the Revulsion and direct pulling back of what is in flux, or flowed into any part altready.

But noither of these Indications are valid, and

\* oblige them to that practife:

of the concocted febrile matter.

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Therefore the practife of Phlebotomy is not to be continued.

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As to Phlebotomy in a Plethorick body, he thus explodes that: " It by plenitude be meant an excess of p. 122. pure blood, i absolutely deny there is any such Consumprise. or indication for Phlebotomy: for during the goode ness of this juyce there must needs be perfect Sanity arising from integrity of all the actions of the body, fo that it may justly be reputed madness to go about to broach this Ballome of life, weakning Nature thereby, as long as there is health with abundance of ftrength. Imprimis not andum ( faith Van Helmont in cap. de febr. p. 8. ) ut nunquam vires. peccare possint abundantia, ne quidam in Methusalem: itanec bonis · Sanguis peccat minuitate, eo quod vires vitales & Sanguis sint correlativa. i.e. We are to take special notice that too much strength can never be offensive to any, yea, not to Methusalem; no more can any one have too much blood, for as much as vital strength and blood are correlatives. Well then it is plain, that what soever sickness seems to indicate Phlebotomy up- P. 1235 on the account of an avanhipma, sanguineous supers pletion, must needs come from an apostate juyce ge-

e nerated by vitious digestions, which being hostile to life irritates the Archeus to
frame the Idea of a disease, not as it is
meerly provoked by nimiety or plurality,
but from the pravity of the matter:
wherefore the case is altered now, and the
where, signification or demonstration of
evacuating, doth in a strait line respect the
cruor, or Cacochymy, directing the Artist to
reform, mundise, and rid those impurities
contained in the seemingly corrupted

married juyce, by proper means sequestring the vile from the precious, not to let I would willingly know how this Archam doth frame the ldas of a difesse? and what this ldas of a Feaver is? to return.—G. T. his own words: Is it a Substance, or an accident? Material or Immunerial? That it specificates the disease, must be granted? But the notion is incomprehensible: and this Scurvy Unliver.

out indistinctly what comes next at randome to the furtive castration of the Eutony, lustiness, livelines. and strength of the Patient, which is to be preferred before all motives whatloever.

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Fig. Tis certainly known to those who are through-& Symbelis of cly versed in the Analysis and Synthesis of the parts of dies, dothnot bodies, that ebullition, astuation, effervescence of fe= bille liquors ariting from a pleona/me of degenerate convincingly Sal. and Sul. &c. as they would have it, may be apwhat may be 'peased and allayed by Remedies assisting the vitals to done in those c make separation, and afterwards an exclusion every way of what is reprobate, referving what is acceptable. This being performed, there is no fear that a s plenitude simply of it self can do any harm, for hereby so expedite a course is taken, that the overplus is in a short time sent packing away by vomiting, stool, urine, expectoration and sweat: For this reason, con-· sidering what strict abstinence the Patient is put upon in a Feaver, 'tis very unlikely a plenitude should be of any duration. Is it not then greater prudence in a Physician to minorate what is superfluous by safe, profitable wayes of secretion, and excretion, still ad-'vancing the principal Agent, then for that end to give e vent indiscreetly to what comes next without any blood doth he election, incommodating, if not hazarding the loss of account to be the vital principles. For believe it, who soever hath a great Quan- any great quantity of blood taken from him, either rues know of any it for the present, or hereafter: Let him that is betero-Physician that dox prate what he will, alledging examples of those furdy, lusty bodies, which have hereby received im-Quantities, 25 º mediate succour; I can make good by practise (and challengeany one to come to that; otherwise let him these dangers. forbear his Garrulity) whosoever is cured by a Lan-Can you viake cet in this fort, is either prone to relapses, or to live chile, that more crazy in his younger or elder years, although Phlebotomy is for some short time he may not by reason of a robust these subse- ingrafted constitution be sensible of these inconveni-

P. 124. How much tity?Idonot takes away fuch great to create quent evils. ences. othe

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As for Philibotomy in order to Revulfion, he thus ex- p. 126. plodes it. " Another pretended way for Janguimifion is Repulsion, by which they say a violent flux of morbifick liquer into any noble parts is intercepted: for this end they ule the Lancet in a Plenrifie, Perimeumony, or any inward inflummation: But how far they erre herein, is well known to the best Practitioners: for although I confess they do sometimes in the beginning suppress, and as it were crush the aforesid diseases, yet is it done accidentally, very uncertainly, rather by way of distraction of the Nature for the loss of its substantial treasure, than from cany true Revulfion or direct pulling back of what is in flux, or already flowed in. Tistrue, where the e vellels are depleted, a repletion is forthwith made obfugam vacui, to avoid a vacuity, but the supply is from what comes next: for as intro as well as intro foras. However there is no streight immediate Revulfion intended from the part affected to the oric fice:

It seems strange to me that any man should pretend thus long to have diligently attended on the practife of Physick, and yet never have seen, or have the impudence to deny that there can be any such thing as a furchinge of Blood, which is that which Phylicians call a Plethora or Plenitude. But the continuance of these Baconical Philosophers will in time free us from any admiration of this kind. In Greece, when the Athleta or Wrastlers were publickly maintained, the observation indeed was more facile than now, but every Countrey almost yields frequent cases of such an indisposetion: particularly tis easily to be remarqued in strong, healthy and plethorick Children, whose sudden death, : s. it often arifeth from no other cause, so it astonisheth the vulgar, and ulually raileth in them suspicions of Witch-Hippocrates and Galen having taken notice of

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aph. 3.

the evil consequences attending this habit of body, do advise the owner to attempt the change of it, though it be accompanied with the most perfect health and vi-Hipport. sect. 1. gour imaginable. Er win zuuragioion ai en aner eucha ogane. िहारे, कि देन महि देव्यम् दिकार. हे ही अधिकार का प्रदेश महि योगर्दक, हार ये महिला. eiv. केमले हैं हैम बेराव्यव्यवण , हेंद्र देश वीर्णयहामा देनों रहे दिवसावण देनावीर्जियह , क्रेस्निक्स er om' od zeigor. Treteur eireng the Euszine dueir Zumpers un Beading. And this habit of body, and fulness of blood, which he saith would do Methusalem no harm, is observed by those who had daily opportunity to see the sadexperience of it, to abbreviate the life, and occasion many diseases, as Apoplexies, Cardiacal Syncopes, and Ruptures hortat ad bo. of veins in the Lungs, Squinancies, Pleuristes, &c. So that Hippocrates condemns that babit of body again in his book De Alimento: and Celsus concurs with him therein. Ea corpora, que more corum [ Athletarum ] repleta sunt, celerrime & senescunt & agrotant. 1. c. Those bodies which are dieted and brought up to an Athletick habit, do soonest of all decline into sickness and premature old age. I never read of any Phylician,

> lous diseases as that Enexy subjecteth men unto: But our Helmontian doth think otherwise. If such an habit of body be thus perillows during perfett health, how ought a Physician to apprehend it upon the first approaches of sicknes ? Doth not then Nature add to the redundance of blood by a defective transpiration; whereas the veins are so full as not to be able to contain more? Is not the pulse weak, flow, and

> who in his directions for health recommended unto his Patient that course of life wherein the Athletæ were bred up, thereby to acquire such a Plethoric habit: and whatever the present sanity were which they injoyed as to strength of body, their intellectuals were

> very dull; and the most understanding persons would have thought it prudential in such a case to broach some of the Balsome of life, and weaken Nature thereby, rather than to live in a perpetual danger of such peril-

> > oppressed,

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oppressed, and the Heart so debilitated as not to be able to discharge it self of the Blood which slows into it, and in danger to stagnate in the Lungs, or coagulate in the Ventricles? Can there seem any thing more agreeable to common reason in this case, than to practise Phlebotomy, whereby Nature is at present alleviated, the surcharge of blood abated, and the imminent dangers prevented? Is it not prudential, werea little blood so precious a thing, and the loss thereof attended with some small irrepairable debility? Is it not, I say, a part of prudence, to submit to lesser (though certain) inconveniences, then to run an almost inevitable hazard of the greatest imaginable? I read not that the famous Milo arrived to the years of Methusalem, nor yet to those of Hippocrates: though I am apt to think he was fo solicitous for to preserve his strength in its vi- Eim var. gour, as not to have been much Phlebotomized: At the Histor. 1.9. Olympic Games being Victor, and going to receive the 6.31. Garland from the judges, he fell down dead suddenly, and was thence carried to his Grave. It is to be supposed, according to our Helmontian, that in that Enexy of body, fomething so virulent or odious put the Archaus into such a fury that it ran mad and destroyed him: whereas had it been sublimate or Arsenic, it would not have been half so exasperated, or hasty. 'Tis a most humoursome and sentles Kitchin boy, that no man knows how to please: Suppose that the Brain might be in him a little oppressed with a Vertigo, or some petty disorder, must this capricious Duumvirateimmediately produce the Idea of no gentler a disease than an Apoplexy, or Epilepsy? But to pass from these phantastic causes, the allegation whereof least becomes an Experimental Philosopher, I shall instance in the effects of Bleeding in a Plethora.

Anton.

Anton. Benivenius Medicinal. observat. c. 69.

Men commonly attribute much to the Pulse in the discovery of diseases: If that be weak, low and ' (mall, they frequently presage death or mortal dangers: if it be full and strong, they give hopes or asinrance of recovery. Yet we meet with one Philip, a drunken and corpulent fellow, who lying fick in his bed . I found his Pulse so weak, that it was scarce e perceivable, and I should have t ought him near death, had not the high colour of his face, the fulness of his veins, and his eyes ready to start out, together with the setting of his teeth, all proceeding from redundance of blood, hindered me from passing such a Prognostick. Upon due examination of circumstan. ces, I concluded the whole distemper to arise from a 'Allenitude and that there was no such effectual ree medy for him as speedy Phlebotomy: His friends were much against it, apprehending that the meakness of his condition was such, that it would rather hasten bis death, than cure him; but at last they did affent thereunto, and I caused him to be let blood. And immediately he recovered, the decay of his strength and malady not being more sudden, then was his recovery. NA

This observation of Bonivenius is confirmed by the like accidents and resembling cures, which had fallen under the observation of Dodonæus, as he relates there in his Annotations; particularly he sayes, 'Adsui & ego olim homini ebrioso, qui cum ad tantam plenitudinem venisset, ut quodammodo strangulari videretur, etiam mutus factus suit. Huic vero & sanguis largiter detractus e communi dextri brachii vena, mox loquelam & sanitatem restituit.

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It were endless to transcribe cases of this nature: nor do I believe that there is any understanding Practitioner who will deny that 'tis possible for an excess of blood to become prejudicial to a man. I proceed against our Helmontian: He sayes, " that nimiety or niurality doth not offend in such sases, but the pra= vity; and that the pravity is to be cured by proper e means sequestring the vile from the precious, and afterwards excluding it by voinit, stolutine, sweat, and ernettoration. I answer, that the case here being put concerning persons that are Plethorical, and that Quoad vasa, when the vessels are so full that Nature languisheth under the burthen, and is not able to discharge even the vital operations, by reason of its excess: though the Blood may have some mixture of depraved humours, and though they may have occasioned that ebullition or irregular motion of the blood, yet is not the disease ordinarily to be cured without Phlebotomy: I will not deny but that such cafes may be alledged, as the Patients may have recovered out of those kinds of distempers, not only without Phlebotomy, but without any help at all.

I am willing to grant that the Diatritarii, or Ægyptians (who were prohibited by Law to administer any Aristot, polit. manner of Medicament till after three dayes were paf- 1.3.c.2, sed) that many did recover under their hands: though I believe that in Apoplexyes and Squinancies multitudes must have miscarried: Had not Erasistratus done Golen. adv. great Eures, his fame had never equalled that of Hip- Erasistratum pocrates: So Petron was a man of renown, yet perhaps c. 4. what Celsus avoweth of the last, may be fixed upon c. celsus Methem all. Plures, si protinus a principiis excepit, in- dicin.l.3 c.9. teremit. Thus much I am willing to grant, when judicious men are the Physicians, and instead of one Asclepiades Medicament do substitute another. But what Ascle- was he that piades or Erasistratus might do in their dayes (when fist professed fastings, bathings, oylings, and the like were the so tuto, jucunds.

much C. Celf.l. 3.c.4.

much the vulgar practice in health, that Patients -willingly submitted thereunto in sickness ) I cannot believe that an ignorant Helmontian, or other cheating Chymist, or illiterate Experimentator of this Age can do. Phytick is a PRDFCSSIDM where= in we commonly see wiracles, the events of diseases being such, that Pature oftentimes Fere, quos ra. transcends our Art, and Imagination: And tio non resti- sunder unexperted Dedicaments (undoubtedly rath) do effect Cures that the most rational and c. Celsu Me- Dethodical procedures have failed in. Nothwithstanding all this, I do not see that me ought to presume upon monstrofities; or regulate our practise by such contingent Cures: And I scarce believe that any discreet person would either put his life upon such an adventure, or take it well from us should me either relinquish or perswade him thereunto. I fay then, that in a Plethorick body, Suppose we that it is an Ephemera, or Synochus imputris, 'tis well done of the Phylician to bleed the Patient, least those Feavers (which we confels, even without Phlebotomy, to be Safe) least the Diary feaver should degenerate through some secret indisposition of the Patients body, or some errour committed by him, into an Hectick or putrid Fea-Forrest. obs.1.s. ver: Non est tamen negligenda bæc febris Ephemera quamvis velocis & bonæ terminationis sit, cum soleat propagines malas gignere, & in alias febres transmutari: & licet cito terminetur, non tamen inter morbos acutos reponenda: quia caret malis accidentibus. Si error consing at in curatione vel per medicum imperitum, vel ægrotum periculum est ne in Hecticam transeat, si biliosæ fuerit temperatura, qui egrotat : In aliis vero in putridam. This is confirmed by many observations, and allowed of as true by Physicians: No less true is it that a Synochus simplex changes into a putrid Feaver, and Squinancies: Forrest. obs. as Forrestus, and Experience demonstrates. As for dis-A. L.obs, 12,13. eases accompanied by, or occasioned from a particular

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tuit, temeridic. 13.c.g.

obs. 3. in Scholio.

conflux of blood ( though fome humours also be depraved ) unto any part, as Apoplexies, Squinancies, &c. for any man to think that such distempers can be cured without Phlebotomy, is direct madnels: for all other

evacuations (by emeto-cathartics; which every body cannot endure, nor is the Apo. plectick in a condition to swallow) or stool, urine, or sweat, and expectoration, are either useles, or too tedious to depend upon in such indispositions. Neither is that to any purpose which this Baconical Impostor saith, that after such a strict abstinence as the Patient is put upon in a Feaver, it is very unlikely a plenitude should be of any duration. For if the feaver be such as is accompanied with a particular defluxion upon ony principal part, the effects of that abstinence will fignifie nothing: for the party will dye (in

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articulat touth Si omnia membra vehementer resoluta sunt (Sin apoplexia) fanguinis detractio vel occidit, vel liberat. Aliud curationis genus vix unquam fanitatem restituit; sæpe mortem tantum differt. C. Cel-Sm Medicin. 1.3. €.27.

Itaque mittitur, non quia multa subest copia, sed quia ca quæ subest, tunc est inutilis & noxia. Volles. Method, med, l. 2 c 2.

all probability ) before he can reap any benefit by such abstinence: no benefit accrues by abstinence, but after some time: whereas the malady permits no delay. notorious that suppuration is not the effect of a few hours: and that pain doth attract ( explain the notion how you will, the Phanomenon is manifest ) so that 'tis not to be conceived how so acute a disease should admit of a lingring cure. The residue doth not need any anfiver: for to fay that who soever loofeth any blood doth rue it first or last, is a matter as easily denied by an intelligent Physician, as it is avowed by one that it is not so: If a prudent min advise it, there is not any danger (abstracting from casualties) if the Patient and those about him do their duty. These last circumstances are fuch that Hippocrates placed them in the first of his Aphorismes. A de des mover suutor mapeger ad deorte mois pros, and हो प्रोप प्रवर्षत्मप्त, हो उसे इस्वर्ष्ट्रणप्ता है, हो परी बहुकीहर. It is not impossible but that a Patient may be so debilitated with his malady, and the means used for his recovery, that he conti-

· nue afterwards in firm: if he refuse thereupon to take that Analeptick Physick in order to a perfect convalescence, whatever ensues is neither the default of the Dactor, nor the evil consequence of Phlebotomy: The same I may say in case either the sick party be not tractable, or those about him malapert or negligent, or Potestautem some extraordinary casualty do fall out. For where eft, non mo- many concurrent causes are requisite to the n20= ducing of an effect, if it succeed not, we are not to blame what did operate, but what failed.

id.dum solum vere, qued junctum aliis · maxime movet. C. Celsus

As to Repullion that which he faith is very weak: 1. 1. in press \_\_\_\_ G. T, averrs that the best Practitioners take it for an Errour: 'Tis no great vanity to pretend to know more than a Baconical Philosopher: I Do sav. that no experienced Physician ever denied the operation though lines the tenet of the Tirculation of the Blood the manner how such an effect doth succeed admits of some dispute, and is obscure. We the filly followers of Galen and the Ancients do think it an imbecillity of judgment, for any to defert an erne= rimented pratise, because he doth not comprehend in what manner it is effected. In eruptions of blood and Catarrhs every one sees the thing is done: and that the Futa vacui is not the occasion of the subsequent blood flowing to the orifice of the vein, I believe those to whom he dedicated bis Book will affure him. How perfect our Cures are continual tryals demonstrate: How little confidence there is to be placed in the Brags of-G. T. after his ten years practise, any man may determine by taking a due estimate of his Ignorance.

> Having thus examined all his Arguments against 19 blebotomy, I come now to give our Reasons for it: But before I proceed to them, it is necessary that I give my Reader some account of

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As to the Quantity of Blood that is to be found in Humane bodies, Gassendus holds that the utmost thereof exceeds not five pounds: but he is justly reproved for that errour (and for intermedling with Medicinal debates ) by Riolanis; who avows, that in Sufficating Anat nova, in diseases he had taken away much more than that with- rot.adv. Gifin the space of twelve hours, without indangering the fend P-1744 Patients life. To refinquish therefore these impertinent Naturalists (whose discourses in Physick have done more hurt than good; being accommodated generally to some prejudicate Hypothesis they take up, or founded upon a narrow experience ) let us see what Artists teach. us, Avicenna and several of the Arabians do hold, Alen. Mossaria that there are ordinarily in a man twenty five pounds defebr. c.29. of blood, and that a man may bleed at the note twenty chirid. Anapounds, and not dye: but if the flux exceed that, after tom. 1.2, e.27. the loss of twenty five pounds he dies inevitably. Me- making fund. bius doth allow of twenty four pounds to be the usual med. c. r. quantity: Homo staturæ decentis ad libras xxiv. San- sect, 18. guinis in corpore habet. Riolanus imagines there may Riolan. de be in such a person fifteen or sixteen pound, at most but circulat sang. twenty in a French min, though in a German, he layes, (in Antropo-Plempius supposed there might be thirty. In an heal-graph.)c.15. the sanguine person, being in the prime of his years, Marquardus Slegelius doth so calculate the matter, M. Slegelius that he concludes there cannot be above twenty or de fangu.moeighteen pounds; and that the generality of men contain but fifteen. Doctor Lower in his excellent Dr. Lover de : Treatise Of the Heart, doubts whether any man hath Corde.c.3. twenty five pounds of blood in his body: and sayes, that P.115,116. according to Anatomists, the quantity seldome exceeds twenty tour pounds, or is less than fifteen.

I.Riola.opula.

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Perhaps the confideration of fuch fluxes of blood as spontaneously happen may give some light unto the controversie, and contribute most to the decision of the grand one, concerning the prejudice that may arise from the loss of Blood by Phlebotomy. It is recorded by Marth. de Gradi, that he had under his cure a lean, med. L. P. 172 Stender and feemingly Phlegmatic Nun, which by the Nose, Month and Vrine did void at least eighteen pound of blood; and yet there remained so much in her, that upon the application of Cupping-glasses, they were instantly filled with Blood: and he recovered her notwithstanding that loss of blood. Brassavolus relates how he had in cure one Diana a Lady of the House of Este, which bled so much at the Nose, that he saved and weighed eighteen pounds, besides what was lost in Aphor. 23.1.5. the clothes applied to her: so that the whole quantity might amount to twenty two pounds. He recovered her by the use of several Remedies, one whereof was Phlebotomy. Marcellus Donatus doth avow, that he Marcell. Dona- weighed eighteen pounds of blood which issued from im de vario. the Nose of a certain Cook of the Cardinal Gonzaga's; who was recovered to as perfect health and as good an habit of body, as he ever enjoyed before. Amatus Lusitanus gives an account of one in a Quartane, which bled at the Nose within five dayes twenty pounds: and of another who bled in like manner, within the space of fix dayes forty pounds: whom yet he cured by Phlebotomy. Montanus faith he cured one of the Eme-Schenck obs. roids, which bled every day for forty five dayes, two med. 13.p.312 pounds of blood, and more. Arculanus doth tell of one Woman that avoided by the Womb in three dayes twenty five pounds of blood, and yet recovered. Almericus Blondelus cured in a very short space a Souldier Almov. Blonde who was wounded under the right Arm-pit unto the sectione, c.2. Lungs: after the man had lain without sense or motion many hours, on a sudden there issued an incredible quantity of blood out of his mouth. The like incredible

Ant, Musa Brasavolus comment. ad

lis.c. 23.

Amat, Lufit. curat. 100. cent.2.& cur. 60. cent. 7.

Schenck. Obf. Medic. 1. 4. p. 614. p. 30.

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dible fluxes of blood, in men and women, he professeth to have observed many times. Forrestus relates how Forrest. Obs. a Gentleman that was his Patient did bleed at the nose Obs. 14. cum in three dayes time, about iwelve pounds of blood: and Scholio. was recovered as well as ever. And when William Prince of Orange was wounded in the throat by an Assassine, he bled at the Jugulars before the flux could be stopped (which was not done in several dayes) twelve pounds of blood: and was perfectly recovered to his strength again. He also tells of another Gentle-Id, ibid. Obs. man, that having drunk Wine-must, fell into such an 12. Hamorrhagy at the nose, that he bled without intermission six pounds; and was cured by Phlebotomy, and other besitting Medicaments. Massarius did see a Alex. Massariyoung Lady of twelve year old, which avoided at the add febr. nole about twelve pounds of blood: but fell afterwards 6.29. into a Cachery. To conclude, in the words of Jo. Rio- L. Riolon, inter lanus: 1mo decem vel duodecim libras per nares, vel hæ- opusc. nova morroidas, per uterum in mulieribus effundi intra sex Anat adv. octove boras sine vitæ detrimento quotidie obser- p. 108, vamus

As to the Duality of the Blod, it is observable, that there is a great variety in the colour and consistence thereof, even in men of perfect bealth: many upon Phlebotomy convince us that their blood is seemingly bad, whereas they are not molested with any distemper at all, but enjoy as entire a sanity, and are as free from diseases as those whose blood is to appearance better. I have elsewhere given an account of several Phanomena to be remarked upon the burning of Blood: which Observations are the more considerable, in that J. J. Beckerus hath published a great mistake I. I. Becherus about it: viz. Siccum sanzuinem inigne ut lardum fla- Physic. sub-) grare, & absumi, non minori celeritate quam ipsum olium terran. 1. 1. O vini spiritus; & in hoc quidem balfamino spiritu sect 5. c. 1. & igne, totius sanguinis vis & bonitas consistit, quoque

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corrupto aut alterato, totius ejus crasis alteratur. But I say that it is not requisite the blood of every healthy person (hould burn so: and 'tis evident by those Experiments of mine, that there is a very great diversity betwixt the blood of several persons, as to instammability; and I know a most fair Lady, whose blood will not burn at all, only crackles, that enjoyes a constant health beyoud most of the sex, excepting a pain at her stomach: and I have observed that to be an usual consequent to such blood. Ishall not illustrate this matter at present by demonstrating the great discrepancies of the blood in several healthy persons, by mixing it with sundry liquors, wherein the divertity of Phanomena doth manifest the great variety thereof. It is observed by many Practitioners, that in healthy persons such blood doth often appear upon Phlebotomy, as to the Eye feems bad. . I have seen many (saith Blondelus) who being cac sually burt in the Eye by a tennis-ball, or by some other accident wounded and bruised, have been let blood; and the blood which issued out seemed corrupt: yet have e not these persons had any thing of a Feaver on them, nor been some of them sick of twenty years before. Ballonius Epi 6 Ballonius observed in several Ladies that out of hudem l. 1. p. 101 mour rather than any indisposition were let blood in May, and fix or seven poringers taken from them, that their blood was very putrid. And he avows that in the most fair Ladies there generally is found such blood as looks impure and evil: yet that such persons enjoy a greater, or at least as perfect an health, and live as long as any that have a better-coloured blood. It is granted by slegeliss, that oftentimes upon Phlebotomy the blood which issueth forth may feem impure, and yet the Pa-M. Slegel. de tient be healthy. Nonnunquam satis insignis impuritas inest sanguini, ex cava educto, nullis gravioribus symptomutis homini molestis, ex quo patet non tantum femper periculum imminere, si nonnulla sordes sanguini admisceantur. I shall repeat here again the strange

Almericus Blondelzis. de venæ seetious. C. I.

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Id.ibid.l.20 P. 1920.

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blood which Simon Pauli of Served in an bealthy person. In the year 1654. a Civiles of Coppenhagen, aged Simon Pauli almost fixty years, being accompanied to be let blood every lign, fect. 11. e year in May, for prevention of the diseases incident in Summer, would needs be Phlebetomized in the presence of Me, and his Wife and Children: the Chirurgeon baving prick'd the Mediane vein the blood as it issued ont had a peculiar but most noysome smell, transcending e any rotten Egg, or stinking Olcer, &c. which was so offensive to all in the room, that we were forced to ree medy it by burning some perfumes. As soon as the Blood was cold in the porrenger, the stench ceased, and the blood seemed to be of a very good consistence, and of o so radiant a Scarlet, that it equalled or rather exceeded the best red that is to be seen in the most beautiful Flowers: it contained but little serum. This passage of his recalls to my mind the ferum of the blood of a Maid, of a Sanguine colour, and perfect health, excepting a pain in her stomach: the blood which I caused to be taken from her seemed landable, and burned very vividly; but the serum being set to coagulate, seemed in confistence like to tallow, and smelt like thereunto. In another Child that died of an Hydrops thoracis, I observed the serum (as it heated) to sent extreamly ill, and with a penetrancy, as if it had been Vitriol burning: it would not coagulate though I boyled it; but afterwards when it had stood to be cold, it did jelly. I know a Gentlewoman of extraordinary beauty, troubled with nothing but Morphew or Vitiligo alba on her Armes in some places: being let blood, it appeared to be all ferum almost, and very little of any crimfon miss was in it, and that not so tenacious or fibrous as is usual; though it were as well coloured as any is: I boyl'd away all the ferum ( which made up about fix ounces, or more) and it would never inspissate or coagulate. The variety of Blood is further illustrated by the case Regnerus de of Henry van Bueren a Brewers man, who in perfect Graef de ge health

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den Disp. Phyfiol. 41. 5.22.

health had his Blood such, that though it came out of the vein with a ruddy colour, yet as it cooled all the ferum did turn lacteous, and resembled Milk: though the sanguinzous Mass retained its due colour: and this was constant to him whether he bled by Phlebotomy or any other way. A case like unto this is related by Bar-The Birthelin. tholin from Joh. Bapt. Caballaria. Concerning the variety of blood in healthy persons, it is further observable: that not only in some small wounds admit of no cure, or a difficult one: whilest others heal with more facility; in the same persons, when they are roung, wounds will be easily cured even by the first intention, and conjoyning of the lips thereof: And afterwards as they grow more in years, every superficial wound gives them much trouble; but when they beden Disp. Phy- come old every scratch degenerates into a foul Ulcer: Sol. 39. 5.22. notwithstanding that the Patient all this while commits not any errour in his diet, nor is sensible otherwise or any alteration in his body, or blood. In fine, diligent observation will assure any man, that not only the Quantity of blood doth vary in fundry persons, but even the Quality, according to the age, temperament, and diet of the parties; nay even according unto the seasonableness and season of the zears. Norshall I exclude the passionately-angry, or melancholick, or phlegmatick from a latitude, yet doth their blood exceedingly vary in the porrenger, and consequently in the Van der Lin. veins. I have oftentimes seen (and so hath Van der-Linden ) that in some healthy persons the blood hath been of a redness equally florid from the top to the bottome: in some there hath appeared only some blackish spots at the bottome, which no conversion to the open Air would rectific into a florid crimson: and perhaps some Observations may inform a man that the florid colour in the surface of the blood ariseth from a thinner fort of blood, of a peculiar kind, which radiates through a fubtle pellicle on the top, and when the blood

is turned top sie-turvey, 'tis not the impressions of the Air that restores the decayed colour in the more black blood, but the affent of this Ichorous blood through the more black and fibrous mass. I have some grounds for this suggestion; but I never could see any pellicle or thin concretion upon the turned blood, and to the defect thereof I have been willing to attribute the Phænomenon, when the turned blood hath not equalled in floridness the first superficies. Some have attributed that florid colour to the concretion and shooting of some volatile Salts in the Surface of the Blood: and Simon Paulli think that Kircher miltook those Saline Strie for ling, Worms in his Micro Cope.

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Besides this difference in the Mass of Blood as to several Individuals, it may not be amiss to consider the difference that is betwixt the Blood in sundry vessels and parts of the body. It is the most common tenet amongst Anatomists, that the Blood of the Arteries differs very much from that of the Veins, Though Harvey Exerfeems to deny it with much confidence, and appeals to cit. Anat. 2. ad Experience for the proof of his Opinion: yetthe Ge-Riolan. nerality, as Doctor Ent, Walaws, and Lower, grant there is a great difference in the colour of them, and that the Arterious blood is the most florid, the venous is of a darker red: Besides this difference in colour, there is a greater which ariseth from the quantity of ferum which new Epidoch. abounds in the Arterious blood more than in the ve- de aq. perio. nous. c Comprobavimus in accepto per nos ex crebris led. 8. Arteriotomiis cruorum duplem ferme compertam ichoeris portionem: qua fit fortoffis ut crediderit Auctor bib deutil, respir, Sanguinem Arterialem non concre-· scere velut venalem; quanquam & nos eum concrescere on semelobservavimus. So Aurelius Severinus: with Buthal Spic.1: whom Bartholin agrees. And Doctor Ent sayes it is devasis Lym. more dilated than the venovs. Besides this, there is a Ent de circul. discrepancy in the venous blood it self: for in the sang. p. 106.

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n ed. c.13. Se&c. 423.

F. 258,259.

Lungs the Blood acquires by the mixture of the Air a tenuity of parts and florid colour exceeding any other Reald. Colum- venous Blood: this Columbus first observed, and gave this reason for the colour and great change which is made in the Blood by passing the Lungs; proceeding to an imagination that the vital spirits in the Arterious blood might be the result of this intermixture of Air William Exer- with the Blood in the Lights: Most of whose opinion citat. de sang. is taken up by Doctor Willis of late, and Doctor Lower. Besides this there is a discrepancy betwirt the Elood of the Vena porta commonly and that of the Vena Cava: which is not barely supposed by Riolanus; but yielded by Bartholin: Sanguinem in cava prope cor puriorem celeg. de vas. esse illa qui in vena portæ continetur, omnibus in confesso Lymphat. c.7. eft qui circulum norunt. Upon this account it is, that by the Emerods there is often discharged a black facu. lent blood, to the great benefit of the Patient: but whenfoever it is florid, the effusion thereof brings a great debility (sometimes very lasting) unto many persons. May I be allowed here to take notice of the Observation of spigelius concerning the Saluatella: Spigel de sab. that the Blood which issues thereat is more florid and Arterious than any can be drawn from the greater veins: this he attributes to the frequent Anastomoses Vesting ep.30, that are betwixt the Arteries and Veins in the remote E Van der parts of the body: wherein he was defended by Veflingius, and Van der Linden. Doctor Harvey observed in the most healthy and robust persons a certain muccaginous humour to jelly upon the surface of their Blood, which he esteemed to be the most spiritous part thereof, others take it to be not an excrementitious Phlegm, but dam med.c.12 indigested Chyle: concerning this Mabius doth profels, he never observed any of it in the blood drawn, or issuing from the veins in the head: but frequently in that let out of the arms, and most of all in that which hath been taken by Phlebotomy in the feet. It hath been observed, that the Blood which hath issued from

the head at the nose hath been of a landable colour and Ballonian Epiconsistence, when that which hath been let out at the dem, 4 1.p. 68. Same time by Phlebotomy hath seemed impure: And the like difference hath been taken notice of betwixt the Menstruous evacuations of Women, and the blood

taken from their armes.

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This variety in the blood of several persons oftentimes is a cause of that discrepancy which is to be in the blood of Men that are sick, in so much that when fundry men are afflicted with the fame Malady, yet may it happen so, that there be little or no resemblance found in their blood. Oftentimes it is observed that in Intrid feavers the blood that is let out by Phlebotomy is feemingly good. Sape ad Speciem & visum purus Billon. Epid. est, qui aliqui 👣 on esia malus est. Ut contra impurus cernitur I specie, qui non ita vo san icia malus. The blood often seems to be good, when it is effentially corrupted and noxious: and it seems often to be bad, when as yet it is incorrupt, and alimental. In malignant and peftilential Feavers the blood is sometimes good to see to, whilest yet the sick languish under most violent symptomes, and commonly such blood is of an evil prognostick. Pessimum signum est, & timoris plenum, cum Sanguir vena scissa extrabitur, li purus, rubicundus, & Petrus acastro. inculpatus educatur, veneno sicatem superare indicum est, de febr. punaut putredinem in penitioribus cordis latitare. In me p.90. ipso olim observatum; nam ter per hanc febrem miso per venam sanguine, nulla prorsus putredinis nota apparebat, alin signis immani ferocitate sævientibus. In like manner doth Simon Paulli observe such outward good- Simon Paulli ness of blood to be a sign of malignity in a Feaver, and de sebr. mato be of an ill presage: which he illustrates with the 14. cale of an ancient man, fifty fix years old, who being fick of a Feaver ( which the Doctor concludes to have been pestilential) was let blood: that which issued out was so florid, that if transcended what any pencil could paint, or pen describe now out of any Artery, or the

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Lunes ever surpassed it: after it had stood twenty four hours, the mass was all coagulated, and no serum to be seen: the Patient died suddenly and without any pangs of death a little after. With this doth that Observation somewhat correspond Corttarus doth make (though he take it for no ill presage) that in Epidemical pestilential Feavers, at the beginning if they be phlebotomised, the blood of the Patient will seem very good and found, but in the progress it will come out putrilaginous. Circa morborum Epidemialium principia- Sangnis sieducatur, ruber & Sano similis apparet - quoties iterum & tertio mittitur, corruption. quam prius elicitur - This he illustrates with Instances, and makes this Hypothesis (most judiciously) the foundation of his Method to cure such Feavers by letting the fick blood in the progress not beginning of the Disease: And undoubtedly if then the blood do not feem corrupted but florid, it must be from some venenate or heterogeneous mixture which advanceth the Native red , as Spirit of Vitriol doth that of Conserved Roles.

of Feavers hath seemed from time to time upon Phlebotomy to grow worse and worse, even on the day before a natural Criss. Quoties enim contigit videre in continentibus seu Synochis, & continuis, sanguinem multoties & die ante Crisin emissum priore misso deteriorem, & tamen persectam sactam, & ad salutem agro-

tantis indicationem, ac sine recidiva?

Ballonius observes that many people in the most fatal Sicknesses have bled pure and to appearance good blood, whose Bowels and Lungs have been found (upon dissection) vitiated and rotten: Others have had their blood extreamly depraved, in whose vitals no default could be found. I Plurimis impurissimus sanguis detractus est, imo nunquam fere purus, quibus tamen mortuis & sectis partes omnes satis integra sunt deprehensa.

Coyttarus de febr. purpur. p. 247.

delm de vena sectione: p 8

Ballon. Epid. 1.2, p. 191.

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deprehensæ. Aliss fere semper purus, quibus tamen viscera & pulmones maxime putres sunt inventi. In a Pleuritie that dyed I observed once ( besides that his Lungs grew naturally to his sides ) that all the left lobe of his Lungs were corrupted and all reduced to a most fatid purulency, that the which he avoided in great quantities at his mouth, and upon Phlebotomy was very well coloured and feemingly landable. My Author goes on: " Scitu valde dignum est, qui fint ut multis quibus putrefacta pæne viscera sunt reperta, landabilis Id.ibid.l. 1. ' Sanguis detractus suerit, item & virk, & mulieribus multis vocardes, pallidis ac fere virentibus, cum alioqui judicasses sanguinem non absimilem colori ( cum quale alimentum id est succus in venis, talis color efflorescat) tamen florentissimus sanguis detractus juerit non s serosus nimium, non subviridis & virore pallidus, es \_\_\_\_ Atulios victemus scabie infectos, aut simili vi- prison. tio, quibus certo affirmamus nos impurum sectione venæ fangninem detraduros, & tamen in ista defædatione cutis illibatus incorruptusque sanguis est & opinionem Spemque fallit eventus. Nos Elephanticis sapeludabilem sanguinem detraximus. Quanquam fieri potest, ut specie landabilis sanguis apparent, cum intestinum caliquod vitium in eo delitescat, quod quidam in habitu corporis, & præsertim in partibus delicatioribus, ut in facie cum ultimo elaboratur, & in rorem convertitur, tum demum se profert & exhibet. Præterea signis · Splenicus est, aut Empyicus, manente in venis sanguine puro, non definit effe pallidus, emaciatus, subviridis, aut nigricant, quia non in massa sanguinis vitium & Ecansa labis est, sed in dia parte. In like manner Blondelus observed that after a Dy-

fenters of two moneths standing, accompanied with a Singultus, and continued Feaver, the Marquels De Cenures did upon Phlebotomy avoid at the Arm very landable blood, whilest that of his stools seemed to be ex-

treamly

Almoric. Blon- treamly corrupted. His superaddo sanguinem detradelus de venz flum omnimodas puritatis notas retinuisse, a sero bene o sectione. p. 68, 69. repurgatum.

Dr. Willis de febr. c. 1.

Doctor Willis after he hath made excellent use of those two old Galenical Comparisons betwixt the Blood, Uline and Disk; adds this accurate and true relation concerning the morbid discrepancy of Blood: 'Thus the Blood, like Milk, in its perfection, as it cools separates into the several substances of a florid red on the surface, a thicker silament tous subsidence, and a serous siquor: But if it be much depraved, when it separates in the Porringer it discovers it self in a different aspect, and each part assumes another shape: for that cremor which coa-

Eninvero superficies candicans gelatinæ similis in emisso sanguine, plerumque in morbosit condensata conspicitur, & vidi cori instar crassam lentanque; sæpe in febribus acutis hoc anno observatur. Th. Bartholin. de lagges dubia. 6.

gulates on the top, sometimes is White,
fometimes green, sometimes of a Citrine
and livid colour: and is not tender,
but viscid and tenacious, so that it becomes as tough as any Membrane, Gis not
without difficulty pulled in pieces. When
the Blood hath been for some time seised with
a Feaver, upon Phlebotomy there appeareth
instead of the beautiful crimson on the

furface a certain white or other-coloured Pellicle oftentimes: the reason whereof is that the blood being as it were terrified by its effervescence, the upper part thereof commuteth its reducing and tenderness into a white and more tenacious substance: And if the Mass of blood be not well cleared of its saline and sulphureous recrements, that superficiary skin is stained with a Citrine or livid tindure: and for the same reason the supernatant Serum acquireth the same Colours: Moreover the purple crassations: ment of the Blod undergoeth several variations:

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fometimes it is (a) blackill, when the Blood bath been too much terrified with a clong effervescence. Sometimes the filizes. thereof are quite vitiated, so that it will enot (b) coaqulate, but remains fluid, like thick Milk; which is a bad fign, and coccurs often in putrid Feavers, and Ca-· chexies. The Serum is sometimes desicient, as in Hiclicks, and after too much Gweat. Sometimes it superabounds, as in Hydropicks; and being set upon the fire e will not entirely coagulate into a White " mais: In some cacheffical persons the s blood is so watrill, that it resembles that Sanious blood which stains the water in

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(o) It was black, in coa lour and consistence like to liquid Pitch, in the Woman whole menstrua Aopp'd eight moneths, and was cured by Galen with reiterated and large Phlebotomies. Galen 6. Epidem. 3. 29. cum notis Van der Linden. select.med.c.14.

(b) Aliquando putrescentia non tam fe infinuat coiore, quam substantiæ modo, ut quum critraber sed non concrescens. de victu in acut. p. 45.

which flesh is washed. I knew a man of an evil habit of body, whose blood (upon Phlebotomy) used to seeme "White and like to Milk; which, after a course of steel smould be again indifferently red.

I shall add hereunto, that I have frequently seen the 13 mn in Hectical persons, and such as have had a latent Feaver to be very serous, and that of a livid, and citrine colour: and in Hydropics that have bled at the nose there was not any ferum in the blood at all. In the Febris alba virginea (which I here contradistinguish from the chlorofis ) I extracted four hours after dinner out of the Saphena of such blood, as that the white forum Crassament was laudable for colour and consistence, but and blood the ferum was so white, as nor to be distinguished from burned vimilk: the lacteous serum did coagulate, but retained no out any smell, whereas it usually resembles a roasted egg: it was auchling. saltish to taste: At the same time I blooded two more in the foot, neither of which had any such latteous serum, but a citrine serum: Hers, which was a young Lady, and in health, burned very well, and crackled: the other being aged fixty years, was excellently and equally

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equally coloured from top to the bottom, and the ferume inclining to citrine: but would not burn at all, only crackled much, and puffed with wind. She had no indisposition on her, only was troubled with a susping. in her face, swelling of the nose, and an inward heat, fuch as is commonly attributed to an hot liver. I do De Lowerde not attribute that lattescense in the first Ladies blood to prairie the mixture of new Chyle, which Doctor Lower faith he. hath observed in Men, and other Animals, being phlebotomised a while after meat, to create a lacteous ferum: for I never in all my life was so happy as to see that, though I have blooded my felf on purpose two hours after dinner to make the tryal: and have an hundred times examined the blood of others who have been blooded at such times as we might expect to see that Phenomenon of his. Yet hath the reality of his observation been confirmed unto me by other credible witnesses: fo that I question not but he may have seen, it; though I could not in these Ladies, who all dined. together about one of the clock, and had done bleeding by four.

Neither may I pass by this Observation, that of all. the serum which I have tasted, I never found any to be bitter, though I extracted some once that seemed so bilious, that being put into an Vrinal none could know it from urine highly tinged: as soon as I set it on the fire it coagulated with a less heat than I imagine it to have had in the veins, and it exchanged its bue for the usual white, smelling like a roasted Egg. Yet doth Van der Linden say, that some have tasted the blood of Iderical persons, and found it bitter. Actu nihil naturaliter in sanguine amarum est: Sed nec esse potest; redde-

Van der Linden disp.Phy: ret enim sanguinem ineptum suo muneri; ceu observare golog. 51. est in Ictericis. In his enim sanguinem amaricare acfect. 19.

cepimus ab iis, qui & ipsum vena emissum, & urinam. Andr. Vesalisse ejus gustarunt, Asclepiadio more. And Vesalius gives de rad. chins. us an account of one Prosper Martellus, a Florentine. Pa 25300 Gentleman,

Gentleman, much inclined to and troubled with the Jaundise, whose Liver was foirrhous (but spleen found) and his Stomach turgid with rholer; and wherefoever he opened any of his veins they were full of thick choler, and the fluid liquor which was in the Arteries did tinge his hands as if it were choler. I find the like Observation in Tb. Kerckringius: that an Isterical Woman brought forth a dead Child in the Th. Kerchie. eighth moneth, which was so yellow all over, that it Anatomic.57: rather seemed a Statue of such wax, than an humane Abortion: being dissected By him, instead of blood in the veins there was nothing but tholer, and all the bones were tinged with such a yellow, that one would have thought them painted.

The scholiast upon Ballonius observed, that however the blood is naturally sweet, even such as upon obstructions from the Menstrua hath regurgitated and discharged it self at the Gums of women: ( as they have told me) yet in one that was troubled with the Green- sickness the blood, though storid, was falt. ce Potest esse floridus color, & in se esse acrior & biliofor : unde quædam mulier icoxxxxp, & ejusmodi præ- Billon. Epidita temperamento mihi affirmavit, siguando vel ex sect. 17. e dentibus sanguis affluit, vel e capite, eum sebi gustum

fentiri salsum & molestum.

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When I was at Barbadoes we carried off several poor English thence to Jamaica, where many of them falling sick, and some being well, were let blood: I observed that in those poor people, which live upon nothing almost but Roots, and drink Mobby (a liquor made of Potatoes boyl'd and steep'd in water, and so fermented) that their blood did stream out yellow, and in the Porringer did scarce retain any shew of red in the coagulated mass: yet are they well and strong, but look pale and freekled: such persons (which are frequent in-Barbadoes) are called Mabby-faces,

It were infinite, at least beyond my present leisure, to relate all that variety of morbid blood, which hath been observed in sundry diseases, and in several persons languishing under the same distemper: as in Pleurisies, the Scurvey, French-pox, Hypochondriacal Melancholy, and the like: wherein if it be true, as it is, that oftentimes diseases vary in individuals, 'tis no less certain that the blood doth also vary in them: so that oftentimes ignorant Physicians do imagine a greater corruption in the blood, and a greater recess from what is natural to the person, and a greater danger in the disease. or in the practife of Phlebotomy, than they need; yet in Epidemical, or some Sporadical diseases, if the Phanomena be as general as the disease, 'tis certain then that the resemblance of the blood argues a resembling cause, which prevails over the idiosyneraly of partienlars.

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I know it will be expected that I should say something about the Controversie whether the Blood be one Homogeneous liquor, the recrements whereof make up the four Galenical Humours, which are no otherwise parts thereof, than the Lees and Mothers of Wine are constitutive parts thereof? Or whether the four Galenical Humours, viz. that which is properly Blood, Melancholy, Choler and Phlegm are the constitutive parts of the Blood, in its natural consistence and Crasis? I shall say therefore about this point as much as may be requisite to my present purpose.

First I observe that the Galenists are at a difference whether the Mass of blood contain those Humours actually, or only potentially? so that one may hold according to them, that the blood is as homogeneous a liquor, as any Neoteric doth hold it to be, though it arise by the mixture of their five principles. Amongst others Erastus hath a disputation, in which he amply asserts,

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afferts, that all those Humours when they are actually in the blood they become excrementition, and are no longer parts thereof, but such as the ejectment thereof depurates and perfects the other remaining blood, which he confesseth to consist of several parts constituting one body, to which they are as essential as the serous, cafeom and butyrous part are to Milk, which if they be deficient 'tis no longer Milk. Nam ut non potest lac Eraffundisputabubulum intelligi sanum & perfectum sine tribus suis 19. 8.62.54. partibus, soro, caseo & butyro, ita non potest sanguis probus animo concipi & definiri absque partium illa varietate. Fernelius doth compare the generation of Blood to that of Wine, wherein the Chyle is supposed olegil, 6.6.3. to resemble Must, which by fermentation separates and throws out such parts as are not actually in that liquor, but arile upon fermentation and are ejected several wayes: the more crude parts are by time digested, and then the noble wine brought to perfection: so he supposeth it to be in the blood: and thus though all the humours be at once as it were produced in the Chyle, yet are they no more parts of the blood, than the Tartar and Mothers are parts of Wine. Both these Simili- Calen. l.z. de tudes of Milk and Wine to Blood were first I think in- Galen. 4. Co troduced by Galen, I am fure he made mention of usu part. c.4. them, and so did his Successours; to Mercatus, Fer- & de nat. sac. 13. c. 13. nelius, Platerus, Palleriaca: then Carolus Piso began Vallerieis loc. to carry the comparison further in his discourse of commun. 1. 10. Feavers: and after him Quercetan: and fince that our Merces, Qui. learned and judicious Countrey-man Doctor Willis. 65. Others held that the blood as it flows in the veins, and is defigned by Nature for the Aliment and other uses in man, is not to be understood as one liquor confisting of some variety of parts, yet united into one similar body (the rest whereof were to be excrements) but a more confused Mass of several distinct Alimentary Humours, which Nature never intends to unite into one similar body, but to continue in a certain more loofe mixture, cach

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each thereof retaining its proper congruity for the continuance of life and health. They do confess that there is a pure crimfon part, (weet and balfomical, which they call in rigour Blood: but they fay Nature never intended this for the fole viralliquors because the never produceth it alone; or if it be ever feen fo, 'tis in a morbid condition was in malignant Feavers, where the ama dapare, or Blood free from the proportionate mixture of other Humours, is reckoned amongst evil Bollon.definit. figns, Qualis sanguis inmalignis adurentibusque febribus folet excerni ante vena tunfa educi. And therefore as none of the Humours are ever feen alone, any more than Blood is (for they hold them all to be exerementitions, when separate) so they conceive they all together in a certain proportion make up that aggregate called Nutritive Blood: and are all actually there, because they do observe that all of them at sometimes have their distinct corruptions, though they continue still in one mass 5 which they conceive they could not bave, except they were actually there: They do conceive them to be so there, that the resemblance betwixt Gall, or extravalated Phlegm is but Analogical: So that they do not pretend to shew in the Blood a bitter Gall, or a pontic arminonious Melancholy: They will not allow these to be other than depravations of the Alimentarious Humours: and the fincere alimental juycos are no more pretended to be evideed by them; then the pure Elements, except it be a posteriori, by a diversity of effects arguing different causes. They saw there was a great latitude in the blood of healthful men, yet so as that the blood appeared with different colours, and consonant to the colours there seemed a variety in their dispositions, and other corporeal qualities: they faw the Mass of blood upon perfrigeration to go into several substances, and they intellectually disjoyned them more, for doctrine-sake; obliging themselves to produce each Humour in its imaginary purity, when

Medic. p.7.

the Chymical fire should exhibite any body not decompounded, or the Corpuscularians make more manifest their configurations of Atomes, or Texture of Particles.

Having thus stated the Question with as much perspicuity as I could: I pursue to enquire which is most conformable to the effects in Phylick; for I will not undertake to determine what God and Nature do in the production or mixture of bodies: It is easie for a man to look himself in those inquiries: We that made us can tell how we were made; our Argumentations are as vain as if one should affert that a Loaf of bread consisted of Cubes, Lozenges, or Irapeziums, because we can cut it into parts of such a configuration. Let us but imagine a subtle Chymist to analyse Chymically our Ale, if ever he thereby discover that it is the product of a Barley-corn growing into a stem and grain, then turned into Malt, grinded, boyled with water, and fermented; I will affent unto the Thymical resolutions of blood: Physicians have been alwayes allowed hitherto to be a fort of gross Artisans; and I

remember Massarias somewhere calls it an Hippocratical demonstration: Indiciumt autem Curatio. To know bodies exquisitely mixed, and to mix them intimately, is a divine attribute: this last is avowed by Galen. Miscere corpora tota per tota, non Hominis, sed Dei & Natura est opus. Perhaps it may be replyed that the most ignorant persons may say thus much: It is true, and if he speak it knowingly, I confess I can say no more than he. Sed quod discemus objectioni illi & Ignarus eque ac philosophus deum causamomnium assignabit:

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De re ipla ut neque dubi tes, morbi morborumq; curationes docent. No mirum hoc est maximum argumentum Hippocratis, ait Massais. Van der Linden disp. Physic 2.

Lacuna Epit. Calent de temper. 1.1.

Francisc. Sanchez de longit. & brevit.vitæ.c.x.

Hoc ignarus inscienter, Philosophus scienter assignabi:
quemadmodum Aristoteles ait de Parmenide & Melisse quem-

quemadmodum tætus alicujus tunicam albam esse asserit.— Nil scimus. Dicamus ergo. Primarum rerum, sprincipiorum, aut elementorum causas reddere, nostri non est captus: secundarum vero, utcunque. Id in

c singulis questionibus experiri possumus.

I say then that notwithstanding any allegations to the contrary, it is manifest that a certain proportion of salt, sulphur, and spirit, besides earth and water, is neither requisite to perfect sanity, nor its defect as to any particular, the cause of diseases: and this is manifest out of the constitution, as well as colour of the blood, in morbid and healthy bodies, as appears by the burning and distillation of blood: There is much of truth that—

I have lately blooded a Woman which after a Quartane was troubled with obstructions of the Spleen and Liver, effervelcences in the Intestines, Asthmatic pas rows fmes, acute pains in her head, obtule pains in her limbs, visible beginnings of a Dropfie; the blood at its issuing out scemed very black, but was pretty laudable in the porringer: it burned well, without any ceachling or insumescence almest: To did the Serum: Here the falt feems father defettive, than to abound, as it ought by these princiT. T. fayes, or may be so. "Now I am ready to discover in reference to miserable man: that the pretended sanguine sulphur or Caeochymy of any in an high Feaver doth afford more salt, water and earth, each of them, than sulphur. I have taken that diseased blood termed corrupt, which might seem to some to abound with sulphur, being clearly conveyed into a Retort with a Receiver joyned thereto, I have by a graduated fire regulated very strictly, brought over what possibly I could. In the upshot upon the separation of the several parts, I have found very little sulphur in comparison of each of the rest.

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putting it to the same igneous tryal, as the former degenerate of equal proportion to it: then after sequestration of the parts, I could not perceive any considerable difference in the quantity or quality of the several parts of that sound and the seemingly corrupt blood.

I do fay that in the Blood of all persons that are in health, there is upon Phlebotomy somewhat that justifieth the supposition of the Galenists; but not which confirms the Hypothesis of the Chymists, The coagulable serum doth commonly represent their choler in part: the florid fluid red their blood: which if lightly washed away, their is another more darklycoloured which is proportionate to their Melancholy: and if you wash the fibrous mass well, it will be white, and answerable to their Alimentary Pituita, or Phlegm. In this last part I have the concurrence of Malpighius, m. Malpighio who upon washing all the blood from the concrete de viscers Mis of bloods found the remainder to be a fibrous con fructura. texture of a whitish colour, which he pitcheth upon as P 163 edit. the materials for a Polypus in the Heart: And had he taken more particular notice of that fluid blood in the cells of those interwoven fibres, he might have discovered two forts of blood, one that readily ascends, and is florid: the other more black and faculent which moveth not: and both these stain the water they are washed into with different reds, the one much brighter than the other. That some fibrous con-

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cretion in some diseases, as Rheumatismes and Plurister covereth like a pituitous mass the surface of the blood, whilest that remains fluid and blo kish underneath: nay I have out of healthful blood in the spring (I am almost convinced that the blood varieth with each quarter of the year ) cast

it up to the surface in just such a mass as covers the top of the blood in those distempers, by putting some spirit of Hartshorn into the Porringer before the party bled I place the choler in the ferum, not but that I know that it hath not the tafte or conlistence of the excrementitious Bile, but because it hath frequently the colour of it, and the Vrine, and Pancreatick juyce ( not to mention the Lymphaducts) are tinged with it, and often-

In quibus superficies sanguinis durior est & candicans, subjectus sanguis in pelui fine fibris plane eff putridus; imo vidi in hujulmodi, ne guttulam coloris rubri. Bartbolin.de lacteis dubia. c. 3.

oftentimes have the Sapor of it: I am fure that herein I have the suffrage of Pecquetus thus far, that the choler which is separated in the Liver (and which tingeth the Vrine) is extracted out of the serum of the blood, where it circulates first along with it, and is percolated

Vide Pecqueti Differtat. Anatomic, de circulat, fan-

guin. c. xii. Videtur humor felleus fanguini firmiter adhærefecre; quod in feri illius parte fundatus fit, nec facile ab illo, intra ulteriorem præ parationem feparari possit. Charleton. œconom. Animal. c. 7. sect. 16. out of it in the place aforesaid. Et vero nullibi per universas animalium species absque bilis mixtura sanguinem reperius: stavescens id serum salsumque testatur; nist forsitan aliquot in suppositis quibus dulicem mitior natura sanguinem concoxit, secut en in aliis, quibus acciditatis expertem infudit, aut nullo prorsus liene instruxit, aut sane perexiguo. I cite him the more willingly, because that If the Galenists

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feem infatuated for saying the Gall is a constitutive part of the mass of blood, (whereas they cannot demonstrate signs thereof by its hitterness) a great part of the scorn may fall upon Pecquet, Backius, and Sylvius, de leboe, and other Neoterics, who hold it is incorporated in

the Mass of blood.

But these Controversies can be no better decided than by an Enquiry into the Seneration of Blod, how that it is at first begun, and afterwards continued: the knowledge whereof will conduce much not only to the decision of that Question, Whether there be in Nature any foundation for those Galenical Humours, that they are constitutive parts of the Mass of Alimental Blood? But also to the main debate in hand Concerning Phlebotomy:

There is not anything more mysterious and monder-ful in the Universe I think then the production of Creatures: In so much that Longinus a Paynim doth hereupon take occasion to celebrate the judgment of Moses, in that He represented the Creation by a Divine FLAT, and God said let there be and it was so. The Mechanical production of Animals from so small

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and tender rudiments, out of a resembling substance, in all that variety which we see, by a necessary result of determinate Matter and Motion, is so incomprehensible and impossible, that were not this Age full of monfrows Opinions (the consequent of Ignorance and Inconsiderateness) one would have thought no rational Men, much less Christians would have indulged themselves in the promoting and propagating such Tenets. 'Tis an effect of that Soveraign command that every thing hath its being and faculties; "Quinnil alind Eroftm disputs est Natura, quam jussuille Dei, per quem res omnes hoc de propriet. funt quod sunt 3 & hoc agunt quod agere jussa sunt. Medic.c. 15. Hic, inquam, non alind quicquam, enique rei suam dedit fpeciem & formam. Per bunc non agunt modo proquanatura, hoc est, pront preceptum est ipsis, res creatæ omnes, sed per eundem reguntur, conservantur, propagantur: Et nunc etiam quasi creantur. This is that which gives a beginning to the Fatus particularly, and by unknown wayes contrives the seminal vertue, its receptacle or Egg, and that colliquament out of which the Body is formed. Because the first rudiments of conception are tender and minute, such a provision is made in order thereunto, that the albuginous substance of ordinary Eggs is no other than what is derived into the female womb: And if we may continue the compari- This is the fon, it will feem most rational to imagine, that the parts opinion of of the whole are contrived at one time, though they Dr. Highmore, neither appearall at the same, nor in a proportionate Courvee, and bulk; for in some their minuteness, in others their Everarius. whiteness and pellucidity conceals them from the Obferver: But that even then there are exerted the pre-Indes of those vital operations which are so visible after in Nutrition, Idoubt not : and that as in the Coates of our eyes the minute voins and arteries convey their enclosed liquors (though undisernable except in Eyes that are blood-shotten ) and as in the brain there hath been discovered veins by some drops of blood issuing MI

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To. Loc. Wepfe in dissection, though no Eye can see most of the capil-Im de apopl. lary vessels; and as even the veins and arteries them-Bustachim de selves are thought to be nourished by other anteries and vein, rendring them that service which they do to the more visible parts : even so it is in the first formation, wherein after some progress the vessels begin to appear, and blood first discovers it self in the Chorion. and thence continues its progress to the punctum saliens, or heat, and undoubtedly proceeds in its Gircle, though the smalness of the vessels (as in other cases) conceal the discovery. So that we may imagine that the Plastick form (or whatever else men please to call D Highmore's it ) doth produce the blood out of that albuginous liquor (which seems as dissimilar as the blood out of which it is derived, though the parts be providentially more subtilised, and refined ) by its own power (as it doth the rest) through the assistance of marmth, and concurrence of the contemnozary fabrick: for the first blood can neither give a beginning to its self; nor is it comprehensible, how the weak impulse thereof should shape out all the veins and Arteries in the body, according as they are scituated. Out of which it is evident that the Soul or Plastick form doth at first reside and principally animate in the Spermatic parts ( so called not that they are delineated out of the Sperme, but out of the Colliquament, which is Analogous to it ) and that they are her first work; the blood is but the fecundary, and generated out of the Colliquament (for other Materials there are none) by the Plastic form which is the proper efficient thereof, and besides the Auxilary Heat there are no other instrumental aids but the spermatick vessels wherein the Colliquament

Gliffon Anat, " Liquor hic vitalis, antequam sanguinis ruborem induit, Hepatis c. 35. 6 sese a reliquis ovi partibus (quibus promiscue commiscestur.

at first flows to the punctum album, which when blood

is generated do become the Heart and Sanguiferous Channels. This is avowed by Doctor Glissen himself: m=

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tur) segregare incipit, o in rivulos sen ramificationes e quasdum excurrere, que postea venas evadunt. Rivuli cistiin unum punctum coleuntes, in eum locum conveniunt, qui postea punctum saliens & cor appellatur. Idque e fieri videtur din antequam sanguinis aliquod vestigium compareat. Herewith agree the most exquisite Observations of Doctor Highmore. Most certain it is by histor Gen. the History of Generation, that no Parenchymatous part c.8.p 69,70. hath any operation in the first production of the blood; all their Parenchymas being post-nate thereunto. And if the blood be thus generated at first, it is but rational for us to imagine that it is alwayes so generated during life: For as it is true that the same cause acting in the same manner will alwayes produce the same effect: So in this case to argue from the identity of the effect to the identity of the cause, is allowable. Est enim causa-Glissen. Anat. rum identitas que facit ut effectus sit idem: quippe Hepatis. c.3500 effectus supponitur non esse, donec a causis existentiam luam indeptus fuerit; & dum existentiam illam largiuntur, oportet ipsius quoque identitatem impertiant, qua fine effectus ipsemet nequaquam suerit, That the Spermatic veffels in which the blood moves do contribute to (anguification much, seems apparent from hence: that the blood is seen in them before it is in the heart : And Greg: Horstine because it is observed that the fluidity of the blood disp. 3. Goseems to depend much on them; and therefore in the ron. 1. Apdead it doth not coagulate (except præternaturally) pend. comin the veins, though it do commonly in the Heart, or wheresoever it is extravasated. 66 Manat præterea Circul Pisan. aliquid a venis nobis incognitum, quod dum earum ambitu 1. part. 6. circ. Sanguis concipitur, prohibet ejus concretionem, etiam post 7.—Aporta mortem in cadaveribus jam perfrigidis, nequis hoc colori davera vena, acceptum ferat: quod vero coralliorum instar aliquando sanguis prorepertus est concretus in anis ipsis, hoc merito Fernelius fluit. Ent. de ascribit merbo occulto. And not only the fluidity but sect. 1370. motion of the blood seems to depend much thereon: for if by a ligature the impulse and succession of blood be prevented;

nama; in ca-

Walam de motu fang. epift. 2.

Pecquet different Anat. de circulat. fang. c. x.

prevented, yet will the blood in the veins continue its course, and not flagnate. Exempto e corpore corde, motustamen sanguinis, isque satis celer in sanis videntur. Et si vena ulla, etiam lactea, duobus locis ligetur, laxata ea sola ligatura que cordi propinquior est dum partes adbuc calent, semper Chylus ad bepar, sanguis ad cor cum movebitur: qui nec a corde per Arterias, nec ab intestinis per lacteas, objecto potuit obice propelli: nec fluiditate sua potius sursum quam deorsum movetur. The truth hereof feeming undeniable to Pecquet, he makes use of a new Hypothesis to solve this motion of the blood, as if it arose from compression of other parts, or contraction in the vein it self: But the Phanomenon will appear in fuch cases as admit not this pretence. From these reafons it is that the blood doth not need so much as any pulse in the veins and arteries (as appears in the first fetus) but as soon as it comes to the Heart it does (to prevent coagulation) the punctum saliens (being endowed with no fuch quality ) practifeth its syftole and diastole, when yet no such motion is observable in the Arteries at that time. Whence the colour of the blood ariseth, is a secret unto me: I know that digestion reduceth some Juyces to a redness: in some Fruits the fire doth the like: in some the mixture of acid Liquors begets a Vermilion: But here I conceive none of these causes produce the effect; the generation of the blood is manifestly an Animal Action, and, as fuch, unsearchable. Whatever I attribute to the veins, it is not to be expected that supposing they should instrumentally sanguisie, the blood should turn blew from them, any more than that water put into new vessels of oak should turn white, whereas it becomes reddish. Thus the Plastic form produceth blood at first, and whilest there is no first conce from in the stomack, supplieth that defect by that albuiginous Colliquament which is of the same nature with the Chyle we digest our meat into, and convey by the Lateous Thoracidutts

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into the Heart. That it is of the same nature appears hence, that it resembles it, and that it is extracted from the Blood of the Mother; and produceth in the Embryo the like excrements of Choler, and Vrine, and Mncosities; nay it hath been observed by Riolanus to Riolanus And have been tinged yellow: How much more may be thopogr. 1.6. concluded hence in favour of the Galenical alimentary cult. p.411. humours supposed to constitute the Blood, I leave those to judge who consider the variety of female constitutions, and their condition during their being with child: perhaps the Hypothesis of a proportionate mixture of the five Chymical Principles will not seem more colourable?

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Having thus related how Sanguification is performed in the Fatus at first; I come to give an account how it is performed afterwards; and even here it seems an Action perfectly Animal: for even Concoction in the Concerning Stomach is not the bare effect of Deat elixating the Concollion in meat; nor of acid or saline Ferments dissolving it; see the excelnor of any other kind of imaginary Fermentation: But lent discourse 'tis the effect of an Animal power operating upon the usu ventriculi Meat in the stomachs of sundry Men and Animals by sundam: Medica several mayes: This appears most evidently herein, com where he resolves it is that the same meat eaten by several Persons, or different done by an Animals produceth different Blood and different Excre- Animal hear, ments: therefore Chylification is an Animal operation, vitalis vegete and is modulated by the specifick and individual con-calore pradistitutions. Having thus determined of things, that im. the soul in all these actions is the Efficient, we may consider that the meat being masticated in the mouth, and commixed with the salival juyce or spitile, is prepared in order to Chylification: then it descends into the stomach, and is there (sometimes in a longer, sometimes in a shorter space) reduced into a cremor which vide Mebium is so far from being acid (as Helmont saith) that it is ubi supra: & generally rather saline, as are also the recrements of it Kerger. de that remain in the empty fromach: It is true that ac- ferment fect.

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Vesalius de fabric. hum. corp. 1.5. c.8.

urinis. c. 3. P. 42.

P. 101,102.

cording to the stomachs of Individuals, and the meat they eat, it happeneth so that this Cremor hath no certain taste, nor colour : Undoubtedly it must have been bitter in that Marriner (and fuch as he) of whom Vesalius writes, that the Gall did naturally discharge it self into his stomach, yet did he digest very well, and never was apt to vomit, or to be so much as fea-Reusherm de sick. From the stomachthe Cremor descends into the Intestines (not all at once, but as it is digested) and there undergoes a second digestion receiving into its mixture the Gall and Pancreatick juyce: I shall not speak of the variety that hath been observed in those two liquors, nor trouble my felf about the manner how they operate on the Chyle: It is manifest that upon that mixture the Chyle suffers a great alteration (if not some effervescence) and some parts are coagulated and as it were precipitated, and by a succession of changes Dr. Needham the several particles are so blended, and refracted in desormat.fæt. their qualities, that the excrements at last are neither acid, nor bitter, but (in dogs) both sapors are extinguished. In the mean time, during this descent of that miscellanes the latteous vessels do imbibe and convey the Chyle in the shape of Milk to the Receptacle, where mixing with the recurring Lympha (which is sometimes yellowish) it passeth through the Ductus Thoracicus unto the Heart; and in the Subclavian vein affociating with the Blood, it passeth along with it supplying the continual decay of the Blood, and yielding Nutriment to the parts, and new matter for excrementitious humours: yet so as that it is not all transmuted into blood, or perfected, at one passage through the Heart, but by repeated Circulations, whereby it comes to loose its latteous colour, and contract a more saline taste, as well as a serous limpidity, or some more degenerate colour : yet it is still coagulable (except in a morbid state ) like to the white of an Egg, as the depurated Chyle is. It were easie to pursue this discourse so as to demonstrate

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demonstratethat neither the separation of the Vrine in the Kidneys, nor of the Gall in the Liver, nor of the Spittle in the Glandules are other than vital Actions, wherein the same form which at first shaped the Body is principal Efficient, and that in these operations there is somewhat more than percolation of corpuscles differently seised: But I shall conclude this discourse by accommodating of it to the defence of the Galenical Alimentary Humours supposed to constitute the Blmd: It is manifest in this History of Sanguistication that the Pituitous liquor which is derived into the Mouth by the falival vessels is most agreeable to that which is by the Galenists called Phlegme: it is not like the serum in the blood, for it is not coagulable, as the other: 'tis instpid; and as it makes so considerable a part of the chyle in the stomach, so it may well be presumed to continue its intermixture unto perfect Sanguification: As for the Gall, as its intermixture in great quantities with the Chyle is undeniable, so 'tis not improbable that it gives a fluidity to the Chyle beyond what it acquires in the stomach: thus Painters to make their colours and Platerus oyls more fufile, and accommodated to their use, do Quan. Phymix Gall therewith. That upon the mixture it should fiolog 17. loose its bitterness and become sweet and alimentary is most agreeable to the Galenists, and no wonder: for the sapors as well as colours of liquors are easily altered: and 'tis manifest that this happens in the descent of the Excrements through the tract of the Intestines: and why not in the vene lattee? there are figns of it in the flavidity usually observed in the Arterious blood: and 'tis remarqued by Judicious Mebius concerning the blood, that it is not Homogeneous. ec Habet enim sua stamina, & nigricantes. fibras : ba- Mabien funbet serum salino principio imbutum ad putredinem elu- dam. Medic. dendam: habet partem subtiliorem splendente rubore 5.14.P 339. excellentem, supersiciem in extravasato cruore ambientem: Et hæc in recessu videtur custodire BILEM ALI-

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Mabiss ubi fupga.p.338. MENTAREM, flavidine sub insigni rubore abscon-Que ex rubro nigricant, flavedini (i misceantur, talem fplendentem ruborem exhibere, cuivis clarum est. The bitterness which it hath is produced by the Liver upon its feparation there, which is not done by meer percolation, but an accessional of transmutation there. As for Melancholy, how much the Pancreatick juyce refembles that (when it proves not to be bilious, as Vestingius and Virsungus alwayes obferved it to be ) let any man judgeby what Regnerus de Graeff hath most ingeniously written thereof : befides that the more black part of the blood feems as essential thereunto, as the more bright Bed. But the Degeneration of the Blood into those Excrementitious Humours, feems to evince as much as the Galenists pretend unto; Since every thing is not produced out of every thing, but out of determinate matter: 'cis not incongruous to imagine that in the due constitution of the Blood there is an Analogical difference of Alimentary juyces to make up good Blood, fince there is fuch a discrepancy in those depurated from it; upon which the soul by the innate temperament of the parts separating, doth so operate that its effects are modified by the nature of the subject matter: Hence that variety in the tastes of Vrine, which is sometimes so bitter that Gall doth not exceed it : sometimes sweet; so that Fonlecarelates of a Partugues's Peasant, who by the sweetness of the Urine would tell who were infected with the Plague, Alle 1

Fonfeea de Exercinent. E.de Vrinis.

Longum sane esset, co que in quibusdam tertiana & e quartana laborantibus, & dein suspendio aut capite Vefalim Exae plexis in furis & mania oppressit obsessis, in melanchomin. obs. Kallop.p.191. c lia morbo effectio, ex varis febrium (que continue fuerunt, & rigorum & sudorum inordinatos circuitus

faciebant ) generibus extinctis, fædo ictero, eoque variovexatio, malo habitu diu pressis, & dysenteria cru-

The Gall appeared in great variety to Vesalius:

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eciatis, subinde reperi, modo commemorare: Sive sciclicet bic insignem bilis nunc flamme, nunc atramenti c quo scribimus in modum atræ, sive albicantis propes modum colorem (qui fere conterminas partes inficeat). · five fluidam, aut luti modo, aut unguenti cuju [dam ex farinis & melle & terebinthina apparati ritu conse. stentis substantiam, sive varies calculorum effigies, ste ve bilis ve sculæmolem instar duorum pugnorum ob cone tenta tumidam, sive omnis bilis defectum, recenserem. · Duc omnia me de hujus vesiculæ natura adhuc magis Grueff de quam antea habent solicitum, Asto the Pancreatick succo pan juyce its variety is no less observable: So for the Phlegm, creatit. § 65% and Llood it felf.

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Having faid thus much in behalf of the Ancients against some Dullmen of this Age, who laugh at any one that mentions but those Humours, I might proceed to demonstrate pradically their several motions in diseafes, and justifie the Medicinal Documents created thereon by such instances as countenance thereunto: But the digression would be excessive; I return therefore to the principal Discourse, and shall from what hath been faid erect an Hypothesis concerning Plebotomy which will authenticate the received practife, which is so judisioully and happily followed by all prudent men.

1. If it betrue, that there is so great a Quantity of Blood in the body, as I have evinced, then may we very well suppose, that the loss of a few ounces is no great dammage to the Patient.

2. If it be true, that so great effusions of Blood have happened to several perfons:

sons without any subsequent prejudice: If it betrue, that large Phlebotomy even usque ad Lipothymiam hath been succesfully practifed; then is it evident that our partite and diminute Phlebotomy may be safely continued: and that whatsoever illeffects follow thereupon, the default is not to be ascribed to Blood-letting, but to the indifcretion of him that ignorantly made use of it, or the unknown idiosyncracy of the Patient, or the over-ruling Providence of God which disappoints frequently the most rational and best Methods of curing. Quadam ejus sunt conditionis, ut effectum prastare debeant: quibusdam pro effectuest, omnia attentasse, ut proficerent. Siomnia fecit ut sanaret, peregit Medicus partes suas: etiam damnato reo, Oratori constat eloquentia officium, si omni arte usus sit.

Seneca de benil. 1. 7. fyin

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3. If it betrue, that there is so great a variety and discrepancy in the Blood, then is there no secure judgment to be made of the

the Blood issuing out of the vein, either to the continuing or stopping its Flux: But the Physician is to proceed according to the Rules of Art; and accordingly as they direct him, may he promote, stop, or repeat the evacuation: A seeming Cacochymy in the Blood doth not impede vene section, nor call for purging, and restifying: Nothing is evil that is natural to a man; but real Cachochymy or redundance of Humours offending Nature, this doth call for our assistance, and requires sometimes Phlebotomy, and sometimes other Medicaments.

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4. If it be true, that Sanguification is an Animal Action, if it be true that the Plastick form is in being before the Blood, and produceth it, and the whole Fabrick, and subsequent operations; and that the motion of the Heart is proved by Doctor Lower to depend upon the Nerves during life: then is there no such strict connexion betwixt the Soul, Life,

Life, and Blood, as—G. T. doth fancy.

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5. If it be true that the Blood doth continually waste and spend it self, in Nutriment and Excrements; then is it manifest not only that the loss of a little Blood partitely taken away is not the loss of life, or prejudicial thereunto. Neither doth it follow that the loss of Blood in a moderate quantity is any imminution of the vital Nectar: it is neither the chief residence or seat of the Soul, nor in a determinate quantity requisite to the continuance of Life, but comes under a great latitude: It abounds more in some seasons of the year, and times, than at others: and why may not Artists imitate Nature in diminishing its redundance upon occasion, as she does? As long as he proceeds not to exhaust all, or too much: The lossis easily repaired upon convalescence, and the quantity is more than can be governed by Nature in sickness; 'tis but the observation

of a Geometrical proportion in such a Phle-botomist. The same Agent will produce the same effects: if Nature be corroborated, and the vitiated tonus of the concocting and distributing vessels be amended, there is no fear of wanting a new supply proportionate to the exigence of the Patient. The Blood we take away is no other than what would be expended or exhausted naturally within a few hours, or dayes, as the Staticks shew: and it must needs be considering the quantity of Chyle which shows into the veins upon eating and drinking.

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6. If it be true, not only that Nature doth thus expend in transpiration and Excrements as well as Nourishment, much of the Blood, and repairs her defests by a new supply (whereby Life is continued, not impaired) so as that the melioration of the Botollan defests by his growth, vigour, strength and intellectuals: But also that the strength of the intellectuals:

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Hippocrat.
fect.3.Aphor.
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her self make men and women apt to bleed at some times, ages, and seasons (which is known to all) then is not the effusion of this solar liquor so unnatural a thing, nor so homicidial an Act, as 'tis represented. 'Twould seema strange Law that should punish every Boy that breaks the Head or Nose of another as a Bronchotomist, or Cut-throat.

If it be true, that Nature doth oftentimes alleviate even in the beginning, and in the end cure Difeases by spontaneous evacuations of Blood, at the Nose, and Uterus, by vomiting and stool, then a Physician, whose business it is to imitate Nature in her beneficial Operations, is sufficiently authorised and impomered to practise due Phlebotomy, by the best of Presidents.

Having premised these Conclusions, which are all either proved in the foregoing discourse, or evident in themselves to all understanding men: I shall proceed to give an account of the Reasons why Physicians do so frequently and in so many Diseases practice Blood-let-

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ting; and those deduced from its variety of effects in Humane bodies: For it is not a single Remedy subservient unto one Indication, or End, but conducing to many, and therefore made use of upon several occasions to different intentions. Ville est id remedium ad quamplurima, & vix potest in ullo magno morbo non Villes. Meth. esse aliquid, cujus gratia utile sit.

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Before I come to particulars, it is necessary I tell you that in the cure of all diseases Physicians propose unto themselves sundry considerations: they regard the disease, the antecedent causes, and the symptomes which attend or will ensue thereupon either generally, or in fuch an individual constitution: they employ their cares to prevent some inconveniences, as well as to redresothers. Some remedies they make use of because they are necessary; of some, because they are beneficial, yet may the disease ('tis granted) be cured othermise, in case the Patient have a reluct ancy thereto, or for some private reasons the Physicians esteem it fitting to alter their course. Upon this account 'tis afsented unto, that many distempers may be cured without Phlebotomy, which yet are ordinarily cured with it, or may be so: And herein the disagreement of Physicians, or different procedures are all according to their Art, nor is it denied but that All of them may atchieve their ends by their several Methods. So that it is a gross paralogisme for any one to conclude this or that Phylician is mistaken, or takes a wrong course, because another takes or prescribes a different one. All the Physicians in Spain, France and Italy do not bleed with equal profusenes: In Germany and England some do practise more frequent Phlebotomies, than others do: and neither of the parties do erre, in case the other remaining Method be inviolately observed. It is in humane bodies as it is in the body Politick, where there is a Method of ruling, though it be carried on by feveral wayes

and means; and whilst each States-man doth prudentially sway the Government, procuring peace and plenty to the subject, his conduct, though it vary from that of his Predecessour, is not to be blamed. It is not to be doubted but that many grievous distempers are cured by Nature, without the use of any remedies at all: Yet will no wise man adventure his life on such incertainties: 'tis not to be denied but some are cured with fewer Remedies than others are: But yet 'tis not prudence to put Nature upon too great a streß, or to account all means unnecessary which are not absolutely requisite, or without which the effect may ( though with more difficulty, and bazard) be brought to pass. It lyeth upon the Physician therefore to pursue all those means which may secure the life of his Patient, to alleviate the disease in its course by preventing all troublesome and mitigating all dangerous symptomes, and to facilitate as well as haften his recovery. It is not questioned but Patients have been and may be recovered of Feavers with little or no blood-letting; yet when I consider the great bazard they run in that course, the vexatious and perillous symptomes which they languish under longer and with more violence than others, I cannot approve of the practise, nor think the Physician dischargeth his duty and a good conscience in so doing: Extrema necessitas in moralibus, ut certum est, vocatur, quando est probabile periculum: and the Patient doth offend against himself, if he refuse to take a besitting course against dangers that probably are impending; and the Physician doth trespals against bis neighbour, if he do not propose and practise such a course. circulat fang. cannot (to use the words of the incomparable Rioc. xx. Antho- (lanus) I cannot without pity to the fick, and some resentment against the Physician, read in Platerus's Obfervations, how fundry of his Patients were broyled and torrefied with burning Feavers, whom he never let

blood. He doth relate of himself, how he was sick of

pograph. p. 585.

Platerus Ob. fervat. 1. 2.

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s a most burning Feaver, yet did he never so much as let himself blood therein, albeit that it were requisite in those cases. Such are not obliged to their Doctors,

but peculiarly to the Divine Providence fortheir re-

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It was the mature confideration of that tenderness weh is requisite in Physicians towards their Patients which advanc'd the present course of Phy sick to its glory above all other Methods: it being endeared to our esteem by all those regards that represent it as prudential. It was not introduced by chance or the subtlety of some perfons. but the choice of all, and so established by the Magistracy, that to transgress against the traditions of this Art, was criminal in a Physician, even by our Laws. It may in some cases seem to be troublesome and unplea-Sant: yet SAFETY requires it: It may seem tedious sometimes by multiplication of Medicines; yet Drudence obligeth by all those means to preserve and secure life; and if the omission thereof be criminal in a Physician ( in case of any finister accident, why is not the practise laudable? Would Men but ferioully consider How much danger they run, and How much more they suffer upon the negligence or indulgence of a Physician, who leaves all to Nature, and adviseth them to wear out a distemper, they would rather bate, than love such a Man; and the apprehension they should have for the unnecessary iconardy he put them on would extenuate his credit very much: The most rash and brutish counsels may succeed well; but yet the most prudent are to be preferred.

Amonst Physitians (I do not reckon the Helmontians as any) there is no doubt but a Plethorick indisposition requires Phlebotomy; Nature being surcharged with blood forceth us thereunto, least some vein should break in the Lungs, or the Patient be strangled with that excess: this is called Plethora quoad vasa: when the vessels are so full of blood, that there

is danger of their breaking, or that the blood should stagnate in the Heart, Lungs or Head, there wanting room for its motion: or take fome inordinate course.

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There is another redundancy of Blood which is called Plethora quoad vires, or fuch a plenitude of blood as brings along with it no apparent bazard of breaking the vessels, yet doth it oppres Naturelo as thereby to become redundant: It is more than she can bear in the present jundure; 'tis more than she can rule, and it will suddenly fall into an exorbitant motion, to the detriment of some principal part, in case timely prevention be not used. In both these cases (in which the blood is not supposed to be much depraved from its natural estate) all do allow of Phlebotom, and if it be timely put in execution, it may hinder the progreß; however it expedites the cure of the disease. In these cases we consider not only the present plenitude, but also the future, what may be in a few dayes, to the great exasperation of the disease, and peril of the Patient: For it is possible that in the first beginnings of a disease there may be neither of these plenitudes, but they may ensue a little after: For when the insensible transpiration shall have been a while abated (as inquietude, Static feet. 1. pain, and watching will abate it ) the Blood degeneapnor. 41,49. rates, and no longer continuing its usual depuration, those excrementatious particles which were lodged in the babit of the body and pores do remix with the fanguine maß, and become like so many fermentative corpuscles agitating and attenuating the blood, so that whereas before there was no plenitude, now there is: that the excrementitious particles do contract a fermenting beterogeneous quality different from what they had in the Blood appears hence, that those which sweat much (as the new-comers in the Indies) their sweat is less noy some and bilious by far, than it is in those that sweat more seldome: Thus soot is a different body from

Sanfor. Med. aphor. 41,49. 7,8.

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from any thing that is burned. Hence it is that those particles being reimbibed into the blood are so offenfive to the nervous parts, and introduce a lassitude, as if the body were furcharged with a plenitude. Besidesthese two cases in which Phlebotomy seems to be directly in-Santor. Med. Static. sect-4. dicated by a Plethora or Surcharge of blood: It is pra- aphor, 10,111. clifed in other cases by way of revulsion when the Elood and intermixed Humours flow into any determinate part, or are fixed there as in Apoplexies; Squinancies, and Pleurisses: for as upon dissection it is manifest, that in such diseases there is a greater efflux of Blood than upon other occasions, so it is evident by long experience, that Phlebotomy doth alter its course, and draw back the blood so as that sometimes after that the first blood hath run more pure and defecated the subsequent hath been purulent, as if the conjunct cause of the Pleurife or squinancy had been evacuated thereby. . In reference to such fluxes of the blood to determinate parts, we usually consider what in all probability may happen, as well as what is at prefent urging: and therefore for prevention thereof we let blood upon great contusions and wounds. It is also practised by way of derivation, when we let blood near to the affected part, thereby to evacuate part of the imparted matter: Thus Van der Heyden did frequently let his Patients Van der Heyblood in the same foot for the Gont: Thus in a Squi- den Synopsis nancy to open the Jugulars, it is a derivative Phleboto- discussion. my. In all these cases all Physicians agree to the re- de potu friceived practise: but in case that the disease be not meerly sanguine, but seem to arise rather from a Cachochamy, or redundance of evilhumours, than any plenitude, or exorbitant motion of the Blood: here many Phylicians cry up that Rule: That Blethozick Diseases require Phlebotomy, but those that arise from a Cachochymy require expurgation. Here they accumulate a multitude of Arguments; and undoubtedly, since so great men are of that side, it must needs

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needs be that they have cured those diseases without Phlebotomy. But the contrary practife hath so many abettors whose credit equalleth or exceeds that of the others; and Experience in a multitude of cases hath shewed the great efficacy of Blood-letting in a Cachochymy or meer impurity of the Maß of Blood: and fo prodigious is the efficacy thereof in promoting transpiration, and opening all the emunctory passages of the body, in preventing of putrefaction, and expediting of the concoction, and in refrigerating the whole habit, that Hippocrates and Galen did resolve it in general, That whensoever any great Disease did seise upon any Person, if he were of Strength and age to bear it, he ought to be let blood. The Arabians dissented from this practise, but Massarias (after facchinus and the Florentine Academy ) did prudently revive it, and folidly defend the Tenet: and the happy Cures did so convince the World of the truth of their Affertions, that all Italy in a manner was presently reduced under them, and France and Spain; so that though they did, and do still in Spain and Italy retain Avicen to be read in their Universities as well as Hippocrates, yet herein they have abandoned the Arabianse and they which do adhear to that old Maxime of purging out the evil humours, when they abound, do also comply with the Hippocratical practife, and by new excuses accommodate it to their principles: So that as to most diseases 'tis agreed (though upon different grounds) what may or must be done. Few now are for timorous in bleeding as heretofore; and where that apprehension is still continued, the Physicians rather. comply with the prejudicate conceits of the people, then act out of Reason. He that can doubt the strange effects of bleeding, notwithstanding the concurrent judgment of Physicians, let him either read over Prosper Alpinus concerning the Physick practised in Agypt amengst the Turks (where Phlebotomy is the principal the

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and frequently the fole remedy) or advise with any Farrier, and he will be satisfied that in a Cachochymy nothing is more beneficial, though it be particularly said of Beafts, that the Life or Soul is in their 231000. For my part I am sufficiently convinced of the solidity of their judgment who do much use Phlebotomy, and I have frequently observed that the best so Blondelus could not Medicaments have been ineffectual till after Phlebotomy, with all his and then they have operated to the recovery of those skill cure the Patients who found no benefit by them before: so that Gauvre till he to begin the cure of most diseases therewith is the most did bleed ready and certain way of ouring them: and to make him in a that previous to purging, is the direct course to purge rible difentewith utility. 'Twas most Oracularly spokeby Vallesius. ry: which he Facile concesserim venæ-sectionem esse optimum omni- consesseth, though he um auxiliorum quibus Medici utuntur. Est enim va- writes against elentissimum, & maxime presentaneum, & multiplex. Phlebotomy Dica autem multiplex, quia & vacuans, & revellens, & in Epidemical dysenteries. refrigerans, & venas relaxans, & omnem transpiratum Volles. meth. augens, quam ob causam ( & est a Galeno valde cele- med.l.4.c.2. c bratum) in nullo magno morbo non est opportunum, si vires ferunt & puerilis æt as non obstat.

When I considered the itrange efficacy of bloodletting in several diseases, and that the discovery of the Circulation of Blood had rendered most of the Reasons which were formerly used to be more insignificant, or false: I was not a little surprised. I observed that the effects were such as did exactly correspond with their Hypothesis, and that the practise was not faulty or vain, though the principles were: - neither ought any man to quarrel with or laugh at such Arguments as ('tis certain) will guide a man rightly to his utmost ends. 'Tis a kind of impertinency that Iwayes this Age; for 'tis not so much a Physicians business to talk; but to heal. It was most judiciously said long ago, " Ac nibil ift as c. cellus Me-

cogitationes ad Medicinam pertinere, eo quoque sensu. dicin.in pret. disci, quod, qui diversa de bis senserint, adeundem ta-

men sanitatem homines perduxerint.——Itaque ingeenium & facundiam vincere: morbos autem non eloequentia sed remediis curari. Que siquis elinguis usu
e discreta bene norit, hunc aliquanto majorem Medium
futurum, quam si sine usu linguam suam excoluerit.

Neither did Hippocrates place any great value upon
Philosophical curiosities, and Natural discourses, but
esteemed it very well in Physicians if they could demonstrate by their success the solidity of their judgment, "Airs W irdsour no rexum embrises, as in we paur noter,
and worm in the property of the server in the server in

Hippocrot. de η επ τη λόγων οπιθεικυύκαν. ε το λεγεινκεταιμελετήσαντες, αλλά την πίςιν Aste. C. 23. τως πλήθει Εξ ων αν έθωσην δικαιοτέρην ηγεύμενοι, η Εξ ων ακέσως.

> I resolved with my self, that if the Circulation of blood and other modern discoveries taught us but the same pra-Etisewe already followed.it was useles; If it contradicted it, it must be false: I observed that it was the great work of the wifer Novellists to accommodate the new Theories to an old and true way of practise; and perceiving that the effects of Phlebotomy were such as the Ancients insisted on, I perplexed my self in considering what there might be therein to produce so different effects: I abstracted from all common Principles, and called to mind the Opinion of the Methodists, who were a judicious sort of Physicians, and the most prevalent at Rome in Galen's dayes. They held that Diseases did not arise from peccant bumours, since many lived, and lived long with Cachochymical bodies: and in diseases if in the beginning a multitude of humours (and such as Physicians ascribe the diseaseunto) be evacuated by vomit, sweat, or stool, yet the distemper continues, and becomes worse and more dangerous by reason of such evacuatians: As little did they regard the first qualities of heat and cold, secity humidity, concluding them to have no immediate effect in producing diseases. but as they varied the symmetry of allor any parts of the body: the grounds they went upon were such as were deduced from that Philosophy which makes Rarity and Deplity

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Density the principles of all bodies; and they placed Health in such a conformation of the body, and such a configuration of particles us did best suit with its nature: they held that the intertexture of the minute particles of our bodies were such as admitted of an easte alteration, the fabrick being so exquisitely interwoven, not only in the solid vessels, and parts, but a commensuration of prorosities every where, the alteration of which texture of the body into a great laxity, or streightness, and this change of the pores did they make the great causes

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of all Maladies, and the restoration of them to be the way to sanity, and this they called wind whereof & wind the called wind wind the texture and combination of Corpuscles, in the symmetry whereof they placed Health, and in the asymmetry or improportionate and incongruous state whereof they placed all Sickness. It was their Tenet, that amongst those Remedies which did most alter the texture of the body from streightness to laxify, the most powerful were Phylodotomy, and Purging, and that their principal effects were not meetly to evacuate such or such peccant Humours, but in Doing so to create a

They seldome used purging, imagining it not fit till the body was prepar'd, and humours concoded; but they made much use of vemiti.

gards:

new Texture and configuration of Compuscles in the whole Body, and therefore they held them to be General Medicaments, and of use in most great diseases, since such distempers were rather occasioned by a streightness than laxity of the pores, and even such as were laxe one way (as Dysenteries and Diarrheas) might be accompanied with a streightness in the habit of the body. This Hypothesis (for the further explication whereof I remit you unto Prosper Alpinus) having been of great renown, and most accommodated to the conres of life by which the Romans (and since the Turks and others that follow not our Physick) did preserve their Health, and recover their Maladies, did merit my re-

gards: and I observed the truth of that part of their Opinion, which avows that purging and bleeding have further effects than meerly the evacuation of Blood and other Humours: that they had such an influence upon the whole body as to restore and promote all the natural evacuations of the body by its several emunctories and pores; and that Phlebotomy did particularly incline to sweat, promote urine, (and sometimes instantly allay its sharpness ) and make the body soluble, so that upon Phlebotomy there needs no antecedent Glyster:

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Anyman that is converfant in Phylick knows that fuch purges as operate on the blood, promote urine, and sweat, and transpiration, even during the working; for those very qualmes the Patients feel are an effect of Diophoresis. Lipothymia juvet: quia sudorem. G walidam perspirationem facit. Santior. Med. Stat. sca. 1. Aph. 98.

Hippocrat.

Neither is it convenient in a great Cacochymy to purge before bleeding; not so much for fear of irritating the Humours, but that the purge operating so as to attenuate and alter the whole mass of blood, and promote secondarily all natural evacuations; without preceding Phlebotomy it is scarce fafe (not secure) to purge, except in bodies the laxity of whose texture is easily restored, or with gentle Medicaments: for the Humours being powerfully wrought upon by the strong parger; and inclined to be expurged by their several emunitories, and those being either defective, or the veins and arteries too full to admit a greater rarefaction in the mass of blood (which is requisite to

happens a dangerour Orgasmus or turgency of humours in the fick: which Phlebotomy doth prevent. And 'tis I conceive in reference to this alteration of texture that Hippocrates faith. Id ordinara xed, one do no sure au mudal. 5 2. aphor. x. fer, suega noiseir. I observed a great congruity betwixt the Static observations and those of the Methodists; and that sanctorius hath a multitude of Aphorismes Sanflor lect. which agree with them: viz. That such bodies as aphor: 104. Id ibid. seet. 2. transpire well in the hottest weather, they are lighter, and aphor. 28. not troubled with any vexatious heat. That nothing pre-5.1.aph, 120. Wents

their separation and transpiration) hereupon there

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vents putrefaction like to a large transpiration. In fine. I did observe that it was the general sense of Phylicians, that Phlebotomy did draw the Humours from the Centre to the Circumference, and I had taken notice of it alwaves in my self; even in the Colick, bilious, when I was tired out with pains, vomiting and want of fleep ( when I took no Landanum) and reduced to extream debility and emaciation, I determined in that forlorn case (having used all other means for several weeks) I did herein to bleed so long (yet partitely) as that I might be follow Calen. freed from a most troublesome pulsation of the descend- and those ing Artery, below the reins: Ibled eight ounces at first, that represent and found a vextious heat in the whole habit of my bo- as a great dy: I repeated the Phlebotomy in the afternoon, and Allowas very hot all night: thus I continued to bleed Dyne: twice each day for three dayes, looling above fixty and particuounces, and then fell into sweats, was eased totally in larly Citefius my back, and afterwards recovered with a more fa- the colick in cile Paresis in my Armes (and no contracture) then Poilliers. that difease commonly terminates in there. These considerations made me think that there was some more important effect in Phlebotomy than the evacuation, derivation and revulfin of the Blood and other Humours; and that it must consist in promoting that Statical transpiration: and I conceived that the Blood was in perpetual mation, and though Motion doth hinder Fermentation, yet I had observed that in Pipes at Owburne Abby, where the drink runs from the Brew-house to the Cellar (to be tunned up) the Fermentation continues for ( elpecially in the stronger drink ) that the Pipes frequently break therewith, as rapid as the motion is: I did not imagine that the nature of the Blood was such as to be exalted into one Uniform liquor resembling Wine, (for such a liquor would not be liable to fuch sudden changes and alterations from one extream to another ) but that it was a miscellary of beterogeneous liquors in a perpetual digeltive

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stive fermentation and depuration by balitnous particles arising from it (as in more gross by the emunctories ) which if the conformation of the pores and paffages be such as to give it due vent, all continues well: if they be obstructed or vitiated then several maladies ensue, except timely prevention be used: I conceived that in Phlebotomy as the Blood iffueth from the vein fo (as in the pouring out of other liquors) the Air comes in by the orifice, and mingling with the Blood produceth as great, or greater effects than in the Lungs when it mixeth there with the Blood, invigorating it in an unexpressible way, whence we commonly see that the pulse grows stronger and stronger during the bleeding: and upon this account I think it may happen that bleeding with Leeches though equal quantity betaken away, oftentimes does harm, never alleviates fo much as Phlebotomy: and fuch persons as by reason of their tender habit of body cannot bear a violent transpiration, swoon not by bleeding in water, (though otherwise they do ) by reason that the great effects of the Air upon the Blood are impeded by the ambient water: the like happens in Scarification with Cupping-glasses; and in bleeding with Leeches. I did suppose that oftentimes in a Plethora quoad vires, transpiration being hindered by the change of the texture of the Body, the not-exhaling particles remix with the Blood, and there also happens a subsidence of the vessels, and change of the porosities, so that the Fermentation is is not only clogged with morbose particles of several sorts, but so hindered by the subsidence or compression of the vesferment sect. I sels and alteration of the pores, as not to be able to ferment (for freedom of room is necessary to Fermenta-Williss, de ser- tion) nor transpire, nor continue its due course, nor by reason of the charge of porosities confer aliment aright, so that a Plethora ariseth hereupon. But as soon as the vein is breathed, and the Blood (as in your common water-pipes when a Pipe is cut ) acquires a more free

Kergerus de ment, e. 6,

free passage that way, it presently becomes more rapid, and its motion also is accelerated by the fuliginous exhalations hastening to the vent, together with the natural Fermentation resuscitated, and so the whole body by a natural coherence and dependance, is not only evacuated, but altered in its minute texture, and conformation.

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It is most evident that the Blood in the Veins and Arteries is conveyed as it were in conduit-pipes, the Heart being the great Elastic Engine which drives it. being fed by the vena Cava, and difburthening it felf by the Aorta: though even the motion of the Heart depend upon a Superiour influence by its Nerves, which wherein it consists and how derived from the Brain and soul, is a thing to us incomprehensible. I do suppose that the Circulation is continued and carried on principally by Anastomoses betwixt the Capillary veins and Arteries, many whereof having been discovered by Spigelius, Vestingius and others, the rest may well be supposed: and perhaps in the coats of the Veins and Arseries there may be a certain texture requisite whereby This is agrees the transpiration is managed in order to the safe con, able to the tinuance of the digestive fermentation in the Blood, and Hypothesis of the nutrition of the body. The impulse of the diffs, Heart, together with the pulsation, is sufficient to conver the blood to the lesser capillary Arteries, and there though the pulse be lost (which yet a little instammation in the extremities of the body will make sensible, and in some Ladies, as also in Children, the least preternatural heat) yet it is impelled by the subsequent blood still into the veins, and having acquired by the common miscele in the Heart and the digestive fermentation (which naturally ariseth in such heterogenious liquors) an inclination to expand it self, the compression in the Capillary vessels adds to its celerity of motion when the larger veins give liberty for it: the Aiery corpuscles of several kinds (which are easie to ba-

be discovered upon burning ) by their expansion, and contraction adding much thereunto : Thus in Waterengines the narrowness of the Pipes do add to the impetus with which the Water issues forth : And I do conceive (by the Phanomena which daily appears in practife) that the Animal heat in the Blood actuating that beterogeneous miscele, and according to the diverfity of its parts producing therein ( with the help of its fermentation) a rarefaction of what is aiery, and, according to the room there is, a liberty or inclination to expand and evaporate themselves, this is the principal cause of the continuance of the motion of the blood in the veins, and of its saliency upon Phlebotomy. Thus upon Scarification there is no salience or spurting out of the blood, there being no room for fuch an expansion, or for the Aiery halituous parts (in which there is as great a difference as in those exhaling from the terraqueous Globe) to ruth forward out of the continued Arteries and together with themselves to protrude the blood: Upon this account the Methodists and old Physicians (as also the Ægyptians) where the tender bodies and constitutions of Children and Women or Men admit not of for requireth that great relaxation of the pores and texture of the body, which a more robust and firm habit ( wherein as the natural reststance in health is greater, so the recess from it in a bad estate is much greater) would be cured by, they use these scarifications, and prefer them (most judicioully) to Phlebotomy.

This constitution of the Body doth evince the great utility of Phlebotomy, and best (as I suppose) explicates the effects thereof which we daily experiment. From hence not only is manifest how the Body is evacuated in a Plethora, but in case of Repulsion, and Derivation. It is manifest in Aqueducts and Siphons, that the liquors (though much differing in nature from the Blood, nor so inclined to evaporate) does

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accelerate their motion, and issue out so rapidly upon an incision or fracture in one of the Pipes, that a lesser in fuch a case will deplete the greater, notwithstanding its free passage in its own entire Canale. Thus the most learned and considerate Physician, Sir George Ent, having observed first thus much. " Videmus aquam per st. Apolog. pro phones delatam, si vel minima rimula hiscat, foras cum sect. 23.p 62. 'impetu prorumpere. And, " Sanguis per aortam ingressus, fluit porro quocunque permittitur, peræque Idibid.p.107, fursum ac deorsum, quia motus continuus est: quemad-6 modum in canalibus aquam deferentibus contingit, in c quibus, quocunque feruntur, aqua continuo pergit move-Quare nugantur strenue, qui protrusionem bujus-'modinon nisi in recta linea, sieri posse arbitrantur. After this He explains the doctrine of Repulsion in this manner. " Que postea de revulsionibus dicuntur, Id.ibid.p.179. e nullum nobis facessunt negotium. Lantundem enim 180. ' Sanguinis a pedibus ascendit per venas, quantum ad eosdam delabitur per Arterias. Facto itaque vulnere in pectore, aut capite, revulsio instituitur (si modo tam · longinqua instituenda sit ) in crure. Quia sanguis calias quoquoversum ruens, facto nunc in pede egressu, copiosius per descendentem ramum, procul a vulnere, de-· labitur. Non enim arbitramur, sanguinem æque celecriter sua sponte per arteriam aut venam fluere, atque is e secta earum aliquo effluit. Nec sanguis ad la sum pedus aut cajut, per venam cavam impetu affluit, quia shuxus ille aperta inferius venal intercipitur. I do acknowledge that the reading of these passages did first create in me the thoughts I now impart unto you : And hereby it is evident how the Ancients (with their large Phlebotomies ) might derive even the morbifick matter, or revell it, though impatted.) Our minute Phle botomies do seldom produce such an effect; for since it is not otherwise done, but by a successive depletion out of the Arteries, it would feem necessary to extract three or four pounds of blood to effect fush a matter: "sil

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Neither indeed is it necessary: albeit that I believe the most speedy cures (butweest judgment is requisite in such operations) were atchieved thereby: for though we do not retract the Humour, or Blood unto the place where we Phl. botomife, we do revell it from the place whither it was flowing a and the course of the Blood and Humours being diverted, the Arteries leading to the part affected or depleted, and the Flux of Humors (which was by them) is abated, their tenseness there (which appears by their pullation there where they did not beat before) is relaxed, and so becomes less opportune to extravasate either the Blood or other Humours: whereupon Nature it self alone, or with a little help of the Physician, doth digest and dissipate the impacted matter. Whereupon it we add the motion of restitution in the parts affected, which is hereby facilitated, the great change in the digestive fermenta. tion of the Blood (which is manifelt by the melioration of the Blood which is seen in repeated Phlebotomies ) and the relaxation of the mhole body in order to the transpiration and other depuration of the Blood by its several Glandules, the Kidneys, Liver, Gats, the reason of those prodigious benefits which Patients have had of old, and now under our practife, is manifelt; nor do we want a justification for reiterating Phlebotomy, or exerciting it in different veins, and divers man-

The alteration of the texture of the body is no less evident, out of Dietetical observations: of which I have made many, and did intend once to prosecute far these inquiries; as also the discovery thereof in dead bodies.

I designed long ago to set aside some spare hours to a further study of this Hypothesis, and in order thereunto to acquaint my self with the Hydraulic Arts; as also to examine the truth and solidity of the Static Experiments: (out of which this texture of the Body, the digestive motion of the Blood, its change, and restitution, is demonstrable) and to enlarge my prospect by a comparison of the several Methods and Medicaments

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used by sundry Physicians (both Methodists and others) in order to the cure of diseases, and preservation of health: But I must tell you that the malice of my enemies renders my LIFE and Condition so illassured; And the apprehensions I have least the 1920= iests of Canipanella are powerfully and subtly driven on in this Age (I am the more confirm'd in my suspicions; in that my Adversaries are most intent to ruine me, but not to remove those Umbrages ) together with the imminent subversion of the Faculty of Phy- time this fick by the toleration of Divines to practise (which summer to is contrary to the Ecclesiastical Canons, and makes write a dithem irregular) the great incouragement of Quack- cerning the Salvers, and Baconical Phyticians: These reflexi- Unlawfulness ons have so discouraged me, that I have no mind to pur- of Divines to sue those studies, or to be much concerned for the pre- sick. sent on succeeding generation: But could I see Physick regain its lustre, the Faculty encouraged by such Acts of Parliament, as our Predecessors, and Forreign Potentates have made, and pour Colledge advanced as the 1910= per and Supreme judicature in reference to Medicine, I would willingly imploy all my leiseure in the improving of the present state of Medicine, without subverting Learning, or disparaging the Ancients, without the knowledge of whose writings' tis impossible for any miumin sur. man to be excellent in Physick. Poets and Comical Hippocrances. Wits owe more to their Birth, and need less of in- lo: Laurent. dustry, study and judgment, than Physicians: The Asculagio. knotty Staffe, the Sergent, the Pine-apple,

the Dog, the Dragon, the Cock, with which

the pourtraidure of Asculapius was beau-

tified, were not symbols and Hieroglyphics of

a facile study: The first Principle that

we are taught is OB. @ Beaxus, i de textin panen,

8 22 καιρος όζυς, ή δε παρά σραλερή, ή δε κρίσις χαλεπή.

But now the reading of two or three

Books, a Comical Wit, a Bacon=face, o con-

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tempt of Antiquity, and a pretence to novel Experiments ( which are meer excuses for Ignorance, and Indiscretion ) are sufficient Qualifications,

Notwithstanding the Melancholy and pensiveness into which the present posture of Learning here in England alwayes puts me into, when I reflect thereon: I will constrain my felf to proceed further, and examine the cases of Phlebotomy in a Pleurifie, the Small-por, and Scurvey; concerning all which diseases as I shall debate what an Intelligent Praftitioner may do. nay is oftentimes obliged to do in conscience, and out of discharge of Duty to his Patient, so I will not justifie any Action of those persons who understand nothing, nor can distinguish circumstances in particular cases: A thousand things are to be considered by him that would practise Physick exactly, the present disease. the past condition of the Patient in reference to himself, his parenrs, his dyet, preceding distempers, the latter, the more remote, the conjunct causes; what hinders, what promotes, what effects the cure: What will, what may happen in the disease, what will or may ensue upon recovery: In all these cases, since he hath not a sensble and easie knowledge thereof, but must proceed upon Consetture, you understand well How great a compreben sion of affairs, and bow much in each case, be must inquire into, who will discharge well the duty of a Phy &cian. It was prudently said of the incomparable Aristotle (the meanest of whose Works deserves to be read above all that the Novel Experimentators have published; if it were but for the wife Apothegmes therein: for Civil Society is the grand work of this Life; and that is more useful, which qualifieth us thereunto, then what makes us admirable 990use= tran=makers!) " Physicians, faith he, do not cure Aisson. Metap. man in general, except it be by accident, but Cullias, or

Socrates, or some other individual person. Hence even

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a man that is a speculative Artist ( how much more those that are neither speculative, nor Empirics?) e may be deceived in the application of general rules to " fingular cases, and so may mistake: Hetells us that it is not for the most dexterous railers, or witty Sophi. Ethicor. l.k. fters, to judge of State matters, nor yet for any man ", to direct therein, who hath not served an Apprentice-' ship in the Ministry of State: for neither in Phy-Gick, doth the knowledge of a common 192aris accomplists a man thereunto: ταυτα δε τοις μεν εμπάςοις αφέλιμα εγάδετε. Zvai Sonai τοις δ' ἀνεπις ήμοσιν, ἀχεεία. What is it to the Jεών ων όσας purpole if they learn a multitude of Knick-knacks, Tivi deslat and have an infinite of Conundrums in their Heads, if oogish, h they know not what appertains to Draftile? These in 754, in yénairow-lighted Verulamians may recommend them- Yeartoineselves by success in a few; the Grave may conceal, or a gl ovor . strong Mature amend their defaults; but they are now vouice nevertheless ignozant. In a calm many can iteer a TEXUN TEOship, whose imbeculity of judgment finks it in a storm. officery, if Επει οί πολλοί γε τη εντεων ταν ά μοι δοκέκοι τοίς κακοίσι κυβερνήταις τηγραφική. πάχειν η γας εκείνοι όταν έν γαλήνη κυβεςνών ες άμας Ιανασιν, έκατα. Ημρρος. de φανέες είσιν όταν θε αυθές καθαχη ανεμός τε μέγας κ χειμών, φανερώς veter mediscin.c.17. ที่อีก หลังเท ลหริยผ์หอเงะ อี๋ ลังเองเทท นุ ล์นลยชเทท อีกิกอ์ ย้งเท ลังเอ-ภร์ ธละ ไรร The rave ราย อีทิ ห่ of Ranol TE ห่ สภร์เรอง เทรอง อีรลง เปอ อิธา gamen σωσιν ανθρωπές μηθον θεινον έχοντας, ές ές αν τις κι τα μέγιςα άμας τάνων έδεν δεινόν ές γάσαιτο πολλά δε τα τοι αυτα νοσήμαζα κί πολύ πλέον τη δεινών ανθεωποισι συμβαίνει Εν μεν δητοίσι τοιέτοισιν ณีนลอาณ์ของของ ซี หลาลอุลทธ์ธร คิสะ ของเรเบ โปงเม้าทรเบ อันอ์ขลง ปีย ชับ x ผสง μαχάλω τε κι ιχυςω κι επισφαλώ νοσήματι, τότε σρεων τα άμαςτή. ματα κ) ή τέχνη πασι καταφανής έςι.

I have already spoken concerning Phlebotomy in the Plague: In a Pleuriffe 'tis no less evident that Physicians are divided in their judgments. To begin

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with the true state of the Question: This is more than this Baconical Philosopher did ever think upon; for he without any distinction derives the usefulness of cc If thou beest unsa-19blebotoniv in a 19leuritie. tisfied whether opening a vein as it is indicated from Evacuation, or Revulsion, be a competent sufficient Remedy for the cure of a Pleurisie, or any high Feaver; thou shalt find inthis short Tract a Resolution in a Negative sense, grounded on Reason, Authority, but especially that which is the sum of all, Matter of Fact declivered according to what Experiments are past, offered ' to be made good for the future. Thus he bespeaks his Reader in the Preface; and a little after he affores him, that " He is able to resolve any one that is capable, that the most Plethorick body taken with a Feaver. or any one Cachochymic afflicted with a Pleurisie may be cured without the Lancet more speedily and safely than by using the same. Though I cannot imagine—G. T. to be good at resolving Controver= sies in Physick, yet such is his impudence, that I will not refuse him the Title of Doctor Resolutus: I have read over his Book with some attention, but I could not find any Pretentions in it to Authority, nor any Experimental Histories related: All amounts to this .- G. Thomson faith, c. It is not good to bleed in a Pleurisie. And 5. Thomson avows that Tis verified by observation, they who resover by this Apolpastick means do for the most part find a great debility succeeding, are incident to Empyemas, Cons sumptions, and prove to relapse into the like condition again. On the other side, those who rise from their fick Beds, restored by vertue of adaquate Remedies. are secured from the forementioned discommodities. 6 Assuredly of all those Pleuriticks, I have handled above these half-score years, I have not known one after their evalion procured by a legitimate form of Phylick, either live crase, fall into secondary calamities, or recic divate

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divate into a Languour of the like Idea. This is that irrefragable Argument drawn from nast Erneri= Ments, which is the Sum of all 19200fs, and must satisfie all that are capable: which it is possible it may do, it there be persons in the World that are cana= ble of being resolved hereby: But impossible Suppositions are equipollent to Decations: Affuredly either this Age affords no Juch Men, or they are a Company of Fols: Who else will give credit to the bare affertions of G. T? He should have done like his Brother Odowde, printed an account of cures, though they had been all false and fittious: but as the case is, he neither cites so much as Van Helmont, and the Peasant that cured Pleurisies with stonedhorse-dang; but is himself Author and Witness: Thus he briftles most Porcupine like.

## Se jaculo, sese pharetra, sese utitur arcu.

This is all I reply to his Authority, and Experiments: His pretences to Reason are no lets gain. sayes. That when we bleed any Pleuritick, there is no p. 126. Areight immediate Revulsion intended from the part affected to the ozifice --- which is a most TRUE, and Bacon-like Aphorisme! for we never thought that the Revulsion could be streight, whereas the line in which 'tis made is crokets. It we Phlebotomise in the Arm, (whether it be on the same side, or on the contrary) or in the foot, none was ever to besotted as to avow the Revulsion to be streight, though he held not the Circulation of the Blood: But such as hold that the Revulsion is made thus, in that the Veins draw from the Arteries, and loas in Siphons, divert the stream, they cannot hold any thing like it: nor that the Blood impacted or tlowing was immedi= attly revelled, and drawn back: But I am apt to think that some upon large and repeated Phlebotomies may have

have drawn some of the purulent and degenerate blood out of the veins of the Arm; in which there is no more of impossibility, than that it should be carried by the emulgent Arteries into the Kidneys, and discharged by urine: which last is avowed to have been done. I 20 Obs.l. 2. de donot know that such large Phlebotomies in a Pleuriste are practifed by the English Physicians; though I think there is not so much of Reason, as vulgar prejudice to oppose the thing, when the Doctor is an understanding Man. For why may not we in England bear that which they do in Holland? there Heurnius took apud Schene- away above four pounds of blood from one Plethorical kim lib. 2. de Pleuritic at one time, in a dangerous Pleurisie, and recovered him when all others gave him up for dead. I believe there may be some amongst us that repeat Phlebotomy too often; but I am confident the generality erre in taking away too little at one time, in the beginning of Pleurisies and Feavers.

Prosper Alpin. Medic. meth. 1. 7. c.xi.

See Schenckie

pleurit.

P. 126, 1 I would willingly know of this Helmontian, whether it be a Rhizotomous cure, when Nature doth put a period to a disease, by an eruption of blood at the nose? Here is no dulcification of the acld Laten; no restiff. cation of the stomach; and no other mortification of the malignity.

His next Argument is, that the Cure by Phlebotomy is accidental only and uncertain: sometimes in the beginning they do thereby suppress the disease, and as it were crush it but it is a contingent, not at all Rhizotomous Cure, which ought to be performed by those things which are Puoiswa, dulcifying the acid Latex, carrying it off through all its emunitories, rectifying the stomach, and mortifying the malignity. That all Pleurities shall be cured by Phlebotomy, is a thing

no wise man will undertake for! As little will any man promise to cure a Pleurisie by sole Phlebotomy, without giving the Patient any Expectorating, or Sudorifich Medicaments, or other potions; besides the Powders of Pikes-jaws, Boares-teeth, Crabs-eyes, &c. which correct the acidity of the Latex; if there be any fuch thing; bottoes ond recented innit dull was

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But to shew the folly and impertinence of this G. T. There are several forts of Pleurisies, in many whereof no Galenical Practitioner is obliged to Phlebotomy at all; though in some such cases it be left to their discretion either to use it, or omit it; as in Bastard Pleurisies. Of those which have the Character of true Pleurisies, some are occasioned by the Mozmes : Redivivus in which—G. T. cannot imagine that any man t 3. P 1028 would rely on Phlebotomy. There are also Pestilential Baptist. Com Pleurifies, wherein the effects of Phlebotomy are as un- morb. vulga; certain as in the Pest it self: Gesner (in his Epistles e. xii, and somewhere) speaks of such a one, in which all died Barrolet un de diffic. respir. that were blooded: So doth Bartoletus, and Wierus. 1.5. c. 4. There was also an Epidemical Disease in Friuli, which Bartoletin de Vincentius Baronius first named a Pleuripneumony, in 1.5. c.4. which the Pleura and Lungs were both affected (where Wierm oblice. the seat of a Pleurise is, is doubtful amongst Physici- 1.1. de Epid. ans) but yet so, that though they had all the signs of pleuritide. a common Pleurisie at the beginning, yet did they ne- Vincent. Barover come to Suppuration, but were cured by Phleboto- nim de pleumy, immediately upon the administration whereof they ripneumon. were relieved, and with the help of accessional Media caments expectorated bilious and pituitous spittle, and so recovered. As to those which are confessed to be Dieurifies, it is to be observed, that neither can all Costollus de persons, nor all places bear Phlebotomy therein, and in abusu Phlebotom. p.87. such cases no wise Physician will administer it: the qualities of the Climate, and individual constitutions or debilities, are circumstances he will alwayes regard. It is granted that some Pleurisies are so mild, and at- Gabelchoverun tended with such favourable symptomes, of so good a centur. cur prognostick, that they do not need Phlebotomy: " In 92 in Scholio Hollerimapud e moderata pleuritide, in qua videlicet parum urgent re-lacotium in Spiratio, tussis, dolor, febris, Phlebotomia inutilis est, Coac. 1.7. aut certe non necessaria! Aliis enim levioribus auxi- vide etiam · liis curari potest, quomodo is a Galeno percuratus, qui iscor in Coac.

doth blame fang. c.xx.

Hippocrat. 1.2. Apher. 19.

Holler. de morb, intern. 1. I. C. 26. De pleuritide.

sect. 4.

I. 1. p. 51,49. obs. 88. Querceton. Redivivus £. 3. p.103.

Colenus com c in levi pleuritide sanguinem expuebat; & plurimi vis ment.3 in l.6. c sunt a nobis & alies medicis citra ejusmodi auxilium But Riolanus convaluisse. But although I am ready to grant that in such cases 19 hlebotomy may be omitted, and vet lating his own the Patient escape: yet I can hardly commend the Ruleshereby, prudence of such Physicians as do omit it: For, since a Dleurifie is alwayes an acute Disease, (in such our Prognosticks are not certain) and the parts affected such as are of greatest importance, and equal tenderneß; since the disease is frequently so fallacious. that amidst the most hopeful signes, and when we may justly expect its happy termination, even then most direful symptomes break out, and render the case deplorable. Nam aliquando ubi antea signa omnia salutem prænuntiaverint, crisis tempore, que fere fit ad septimum, aut alium diem criticum, vebementer Pleuritis exacerbatur, symptomata omnia increscunt, tum nibil movendum est: sed omnia naturæ committenda sunt. ] Since the Patients condition is such, I do not see how any Physician can answer it well to his Conscience, or Zacchies Qu, the Rules of Art ( I am sure 'tis criminal in Italy ) if Medico-legal. he forbear to take some Blood (albeit not so much as 1.9. consil.40. otherwise he would ) away from him: the damage is inconsiderable, but the hazard otherwise so great, that no prudence can well contemn it.

I do further confess that many have been recovered out of very dangerous Pleuristes without Phlebotomy: Alexius Pede- as he in Alexius Pedemontius with the pectoral drink, mont. de secr. and perhaps that other by the eating of an Apple roast-River.cent.4. ed with Olibanum in it: whereof Quercetan makes mention; who also speaks of another Powder given in the water of Corn-poppies, with which he cured many Pleuritics, administring nothing else inwardly, or outwardly. There is a Case in Valleriola (which yet he rather accounts miraculous, than to be presumed upon again) of a young Woman eight months gone with

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child, that fell into a Pleurisie on the left side, with a violent Feaver, a troublesome Cough, and difficulty of breathing. 66 Uno die miraculo curata, non misso faneguine, non encurbitulis adhibitis, ullave purgatione, duo- fr. Valleriolo bus tantum illi præscriptis Clysteribus emollientibus, 1,4, obs. 1. c sputo eodem die cruento plurimo & cum facilitate emanante: sudore interim copioso sub noctem secuto, postride sana evasit, absque dolore, absque febre (quæ stamen vehementissima in ea erat) & absque ullis Symptomatis relictis, a morbo integre curata reman-

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Neither will I deny that grievous Pleurifies have been cured by Sudozifics; this Method was practifed by Lazarus Meyssonnierius, and that for this reason: He fayes the common People about Lyons in France call a Lazarun Mef-Pleurifie Lou-fan prei, or congealed Blood: and that doctr.nov. Platerus (and others) upon diffection have found no febr. Exerc. 3. other default in the Pleura, than that there hath been a P. 41, 42. livid spot thereon, which he looks upon as a concretion durier, in of salino-serous Blood; confidering this, and that the many main Critical termination of Pleurisies is by Sweat, he per- eueiskaru, ins fected his Cures by discussing the coagulated blood by Hippocrot. de Sweat, and that sometimes so as not to use the other vietu in acut. Subsidiary Remedies of Phlebotomy, or Lenitives. 1. 1. sect. 8. ce Imo non adhibitis Medicorum ignorantia, vel adstantium negligentia convenientibus remediis aliis, in vera Pleuritide sudorem excitavimus diebus decretoriis 7. 6 6. 14. quod nobis feliciter cessit, præsertim in adolec scente prædivite, qui tempestiva phiebotomia omissa ad mortem properabat, ille siquidem septima morbi propie nato a nobis vocatis potu hedzotico intra biduum sae nus in publicum prodiit : vocatur ille Serre, & Bur, egundii apud Delphinates taurice vivit- I must take notice here that our Author dislikes not but complains of the omission of mature Phlebotomy; notwithstanding that he compleated his Cures by [weating: Neither is

pocrat.de vi-Etn in morb.

this way of his condemned by Vallesius, whose words Volles in Hip are these. " Hec [ apud Hippocratem ibi ] ratio curandi pleuriticos, potionibus vehementer discutientiacut.1.4.p.197 6 bus, non admodum in usu est nostris Medicis, quippe qui o post missionem sanguinis, & inunctiones & moventia fouta, & que ad has intentiones pertinent, ni se excreent agruti, desperant servari posse, ad nullam aliam transeuntes curationem. Scio tamen quendam, cui homo quic dam vulgaris nescio quid hujusmodi in potu dedit, co-, piosissimo sudore excitato, servatum esse brevi, & thoracem laxatum, & Sputum redditum facile, cum septie ma jam dies effet, & nihil capisset excreare, & pene jam strangulari præ respirandi difficultate periclitaretur. Idiotæ etiam qui Emperice curationem quorune dam aggrediuntur, exudatoriis curant pleuritides, sape cum optimo successu: atqui profecto ratione boc non caret. Of the like Cures, without Phlebotomy, or other Medicaments besides what expectorate, (and perhaps a pectoral liniment, or fomentation) you may fee in the excellent Rulandus cent. 1. cur. 59, 75. cent. 6. cur. 76. And Gabelchoverus cent. 3. cur. 49.

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Neither is it to be denied, but that Rulandus frequently cured Pleurisies (even the most desperate) by vomits of Aqua Benedicta, or the Emetic insusion, and pectoral drinks, without ever proceeding to Pectoral liniments, or Phlebotomy, except there did appear further occasion thereof after the vomit. So Cent. I. cur. 41,81. Cent.4. cur.26. Cent.6. cur.13. Cent.7. cur.42. But when there seemed occasion for Phlebotomy, after the aforesaid vomit, then he useth it. Cent. 1. cur. 35, 36,57,62,65,68. Cent.4. cur.16. Cent-5. cur.53,56,57. praxis chym. The like course was practised by Hartman, who begins p. 1 33. edit. with the same vomit; and if occasion require descends to Phlebotomy, and Diaphoretics, Liniments, and expectorating Medicaments. In Plethorick bodies,

Martman. de pleurit. Genevens.

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doth Hartman bleed before he vomit his Patients. Sometimes Rulandas doth vomit them with his Agua benedicta, bleed, and sweat them for several dayes till they be well; using other pectoral Medicaments: as Gent. 6. cur. 18. Sometimes he sweats and vomits them at once with the powder of Asarabacca-roots, and a Decoction or Water of Cardnus benedictus, and doth not Phlebotomise: as Cent. 5. cur. 6. Concerning the use of his Aqua benedicta, or the Emetick infusion in Pleurisies he avows it to be Experimentum onti= num contra hunc morbum, et omnium alio= rum Bedicamentozum certissimum. cur. 66. I must profess I have generally guided my pra-Hise in the Countrey by the Presidents of Rulandus, proceeding to Phlebotomy after vomiting, if the pain were not mitigated and expectoration facile; but if it were, I acquiesced in topicks, and expectoration, and sweating. Where the Patient could, or would not vomit I followed the Presidents of the said Rulandus, for to purge with the decoction of Senna, Agaric and Iome pectoral additions; and then to expectorate, and [weat the fick, not bleeding except occasion required it, and then I either premised, or used it subsequently, as I saw cause: thus Rulandus Cent. 5. cur. 26,64. for which procedure you may see his Reasons added Cent. 7. cur. 20. And the practile of Ganelchonerus Cent.1.cur. II Cent. 2. cur. 23. But Gabelchoverus in his Scholium here doth not allow of so strong purges as Rulandus sometimes makes use of, and defends by the Authority of Hippocrates, who did use Peplium and Hellebore in fuch Pleurisies, as the pain descended to the Hypochondria, and did not ascend to the Omoplate: But Rulandus doth not regard that distinction, nor Gabelchover, nor many others. The case of the Wife of Ludovicus Paniza doth deserve to be set down here.

Ludovicus

Ludovicus Paniza, Mantuanus, in Apologia Commentarii de parca evacuatione in gravium morborum principiis a materia multa & mala & non furiosa pedetentim facienda. cap. 6. fol. 59. col. 1.

\* Præterea quid sensui respondebimus ? quod anno 1554. mea conjuge pleuritide correpta, ea suum annum 72. agente, imbecillis naturæ, melancholicæ temperatuse, sanguine & carne exuta, dolore ad spatulam as cendente. Eam secundo mobi die, non cum Phlebotomia, sed cum Pharmaco purgavimus, quod suuma cum tranquilitate subduxit, deinde subtili cum diæta, & coquentibus, & sputum facilitantibus (ut par est in hus jusmodi morbis) usque ad septimam sic procedentes, qua transacta, de Phlebotomia memores, sanguinis & carnis privatione atate, & ægra reluctante, eam dismissimus, atque ad id fælicissimum purgatorium Medicamentum rursus devenimus, a quo post xiv. diem salevata suit,

It is further to be taken notice of, that sometimes Pleurisies have been cured without Phlebotomy, purging, or vomiting, or bleeding; by Liniments and expectorating Medicoments: as in Sabelthousus Cent. 1. cur. 3. Cent. 2. cur. 93,98,99.

But to oppose—G.T. directly: sometimes Pleurisies have been cured by Phlebotomy alone and pestoral Medicaments: as in Rulandus Cent. 7. cur. 13, 14. Cent. 10. cur. 49. Sabelshoverus Cent. 3. cur. 7. Sometimes by Phlebotomy, and sweating: as in Rulandus Cent. 6. cur. 60.

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I have hitherto made use of these Authors, because they were most eminent Practitioners, and particularly famed for their Cures in that disease: and it is manifest hereby, that Physicians are not bound up to one method therein. Neither indeed can they be in any disease: for in some years, and in some ages, and persons, and in (ome circumstances, they are forced to recede from their usual courses; and sometimes the mildness of a distemper is such, that it requires not all their addres, those Methods which are set down in our praxes.

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I now come to give an account of the most common and received Method of curing Pleurifies amongst Physicians; and to shew with how much reason they practife Phlebotomy therein. There is not any disease whereof Hippocrates did take so particular care in relating its Diagnoftics, Prognoftics, and Cure, as a Dieurifie, as is evident by what he hath written in his Books De victu in morbis acutis; and De morbis, besides Hippocrat; what he hath set down occasionally in his other cum notis Works: It is an Acute Feaver, finishing its course in Vallesii. seven, nine, eleven, or fourteen dayes; thoughit hath Hippocrot. happened (as in the case of Anaxion) that it extends 1.3. p. 309. its period to thirty four dayes. It is attended alwayes 310,311, 3120 with troublesome, oftentimes with dangerous symp-cum notistomes. A violent Cough, difficulty of breath= ing, pricking pains and Stitches in the fides: these are the Pathognomonical signs of this Feaver. Though the part affected feem principally to be the Pleura or costall membrane, yet are the Lungs attacqued by this difease (and frequently it hath been found that the seat of the Pleurisie is rather in them than in the Pleura; as the followers of Petronius do demonstrate) and their fabrick is so tender, that it is in great danger to be putrified or corroded in this distemper, by the sharpness or other evil qualities of the sputaminous

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fect.2.sect 27. cum notis Lacotii. Ballonius Epidem. hr. P. 20. nocturn. excrcitat.xii. confult.xi. Hippocr. Coac. Locotii.

Hippoer. Coac. matter. Besides, it is a very fallacious disease, and Prænot. 1.5. frequently after hopes of a recovery by a benign Anacatharsis, after that the stitches have abated, oftentimes the disease becomes crude and exasperated again. to the detriment or death of the Patient: as appears by the case of Anaxion in Hippocrates, and that other re-Franc. Rubem lated by Franciscus Rubeus: as also by Mercatus. If it be not happily cured, the danger is no less than that Lud. Mercatus it should change into a Phrenitis, or Peripneumony, or terminate in an Apostemation of the Lungs, or an Empye-Prenot. lib.5. ma in the Thorax. Where the disease is so full of danfect. 2. fect. 72 gerous as well as vexatious symptomes, it is not to be wondered that Physicians have diligently looked into the disease, and recommended unto our practise a great many things, which they who either perfunctorily look upon matters, or superciliously despise dangers, or out of ignorance cannot apprehend them, may contemp. That the Blood in that disease should acquire a congealing or coagulating quality seems unimaginable: both because that oftentimes the procataratic cause is sudden in its operation: as when a plethoric person any way doth over-heat himself, or drink cold drink, &c. and also that the congelation in the Pleura (when it is there) is no other than what is seen in the spots of the spotted vietu aeut. 1.1. Feaver, or Plague; which seem not to be congelations Librand a Die. Of the Blood: Besides, How comes it to pals that this aptitude to congeal, if it be in the whole mass of blood. doth not discover it self any where else but in the Pleura? And if such a Diathesis ad acescendum in the blood produce a Dieutifie, How is it true that Hip-Hippoc.aphor. pocrates saith, Acidum qui eructant, non sunt pleuritidi obnoxii? Why also are splenetic persons (in whom we may best suppose such a Diathesis) not inclined to Pleurifies; except the spurious and flatuleut ones? Is it not moreover known, that Vinegar dissolves congealed Blood, and is therefore given in bruises: As al-

STESATOFTER สับระผม, ท สางอกปม พรงเม EUPÍGKETEL. Hippocr. de fect 35. merbrook de pell. c. 14. fect.7.

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so Oxymel and syrup of Vinegar in Pleurisies? But 'tis evident that it is a Feaver accompanied with a Catarrh upon the Thorax and Lungs; and that it admits of a great diversification according as the Galenical humours do operate in it; and in the Cure a different regard is to be had to a bilious or pituitous Pleurisse, from what there is in one that is sanguine: as any man knows that understands Physick, or hath so much as read Salius Diversus upon Hippocrates de Morbis lib. 2. Or Forrestus's Observations, lib. 16. It was the advice of Hippocrates at first to try to discuss it by fomentations: if they succeeded not, then in case the stitches seemed to diffule themselves upwards towards the shoulders, to phlebotomise the Patient, and let him to bleed largely until the colour changed, from corrupt to Hippocrat. de red, or from pure and red to blackish: But in case the victu in pains descended below the Diaphragme, then to purge morb. alcuet. with black Hellebore, or Peplium. The reason upon Vallosii. p. 42. which he seemed principally to go was, that a Physician was to imitate the progress of Nature, and to carry off the peccant humours by fuch wayes as he inclined them to go: which in one case appeared to have a tendency to the Arm, in the other to the Bowels. But was a newpin-Galen confidering the uncertainty that is in the opera- weevyworking tion of purging Medicaments; as also the hazard of experse, Daj irritating inflammations thereby, and the diverting foundmyrothat sputation which is so requisite in that disease: and Hippoc.aphorthat fince a Looseness was perillous therein, purging 16.16. could not be safe: and I suppose that the sad case of Scomphus may have discouraged him from it : who being purged in a Pleurisie, became frantick, and died on the seventh day: the discourses upon which lamenta- Valles. in Hipble History, in Vallesius and Van der Linden do deserve to pocrat. Epid. be pondered: The purge did not work much, yet kil- Vander Linden, led him. Some other cases as sad as this are record-select. Medic. ed: upon the account whereof the generality of Physicians have nudently been swayed from parging in

Hippocr. Coac. a Pleurisse until the latter end: Because it is very conprenot. 5. venient in a Pleurisse that the body be moderately soluble : they do give their Patients Glyfters : and because the disease is a Catarrh accompanied with a Feaver. they conceive their main work to be this, to prevent the increase of the fluxion, by diverting the course of the Blood another way : and to evacuate by a concodion and expectoration the matter inflamed and impacted. To do this, they place the beginning and foundation of the Cure in Phlebotomy; yet do not me now infift upon their bleeding to a Lipothymy, or till the colour of the blood change, but rather chuse to proportion our Phlebotomies by other considerations; especially since it is visible in the case of great fluxes of Blood, that reoulsion is best performed by partite, and, after some intermillion, repeated phlebotomies: and in order to the Anacatharsis or expurgation by spittle, we do give them all belitting means to expectorate cancotted matter: and use anodyne unquents and fomentations in order thereunto. There was heretofore a great quarrel about bleeding in a Pleurisie, which arm it should be

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Vefalips faith, that all the quarrels about the different Phlebotomies in a Pleurisie, were Rivis de lana caprina. Vefal. exam. obs. Follopii. p. 120. yet this is evident, that Nature delights to evacucte diseases of the liver by on Hamorropy of the right nostril; of the spleen, by the right. And that there is as it were a feam in the body, is apparent in the Palsie. 50 that 'tis wisdome for us to imagine, that 'tis not indifferent what side me bleed

administred in, and in what vein; But those are not the contests of this Age, wherein it is agreed to bleed on the same side that is affected, and to repeat the phlebotomy on the contrary footor arm, Neither ought there to be any dispute about repeating phlebotomy, lince the first occasion thereof continuing, or upon a recrudescence urging us again thereunto, if the Patients strength can bear it, we ought to repeat it. In this case the Methodists and Galen are reconciled; and I suppose it most evident upon those Principles I have laid down. For if the Habit of the Body in a Pleuriste be become too adstrict, then is it necessary to relax it.

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their grand relaxatory is Phlebotomy; and after a vomit, they used it : yet had they this care, not to bleed Volles Meth. too much, least the body being too much relaxed, should Riolaness de not be able to concoct the impacted matter: and the circular. Galenists do give the like caution, that we have a care fanguicks. of hindering the Supparation by importune Phleboto- 1.xvi. Obf. 32. mies. I find Hippocrates to have blooded Anaxion in Scholio. upon the eighth day: Forrestus gives us Instances of the like nature. That frequent, Phlebotomies in the same Pleurisies have been practised very beneficially, is evident upon record: and in Holland I find Tulpius to accord with the French and Spaniards, and to allow, if Tulpius Obs. the disease be violent, that the Pleuritic bleed three, 1.21C.1,2,3. nay five or eight times: and gives such Presidents for it at Amsterdam, as may justifie us at London. I will recite one cale of his.

## Tulpius Obs. 1.2. c. 2.

C. Uxori Cusparis Walendalii, insurrexit, octavo a e partu die, acerbissimus lateris dolor: repetens identidem, tot insultibus, ut necesse fuerit, ter pedis, & e quinquies brachii exoluere venas: antequam comprie meretur, sanguis, a suppressis menstruis sursum raptus. Sedea fuit ipsi virium constantia: ut præter sanguie nem toties detractum, sustinuerit insuper ingens alvi profluvium, antequam integre, evicerit hunc more · bum.

There is a great variety in the practife of Phylicians as to Phlebotomy, some using it more frequently than others do: whether these be rast, or the others indiscreetly timerous, I will not determine now: Both may do well as to the recovery of the Patients; because a judicious person supplies one Medicine by the use of another: But these Baconical Ignoramus's cannot do that. I find that Forrestus seldome, if everbled his Pleuritics

Almaricus Blondelus de venze sectio-BC, p. 50.

Pleuritics above once: and Blondelus assures me, that the Peasants of France bleed but once in a Pleurisse at the beginning, and recover. " Plebeii fere omnes enna vice contenti adire Medicum, una sola adhibita e venæ sectione curantur, & ex decem unus vel duo emoriuntur, & aliquando omnes sanantur. Without all controversie Phlebotomy is one of the most generous remedies in the World, if a man understand the Art of using it: Eut'tis our old Boks, and not the Novum Organum of my Lord Bacon, or the insipid Writings of the modern Experimentators will qualifie a man thereunto. I do believe that Betallus did the wonders he speaks of, but as there were left-handed. Caroes heretofore, so there is many a left=handed Botallus, that would imitate his practife, yet wants his judgment and learning. I would advise such to be tender how they deal much in this noble remedy, or rather that they would totally delilt from practifing Phifick.

I know that in Germany most are scrutulous about Platerus prax. reiterated Phlebotomies, yet Platerus commends it in t. 2. C. X. Pleurifies, and adviseth to bleed frequently, even thing in a pay in the beginning of the Disease. 'Tis not

that the people there cannot bear it so well as in France, or Spain, but that they will not: There was a time when Galen thought that fuch as the French, could not bear will the loss of blood: and Valleriola did imagine that the Moors and Spaniards could not endure it so. well as the Dutch, or French: there was a time when to

let a Woman with child blood in England, was esteemed impracticable: and the Lady Drury was a bold Lady, that in the dayes of Queen Elizabeth, durst obey Bo-

venz sect.c.3. tallus therein, against the opinion of the greatest English Doctors: But a greater maturity of indement, and the good success hath undeceived us, and convinced us.

that our fears were but panick and vain: and in oppofition to Galen and Hippocrates we accord with Celfus.

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nere non posse hoc auxilit genus judicabant; persua-dic.1,2.c.10.

ferantque sibi, mulierem gravidam que ita curata estet,
abortum este facturam, Postea vero usus ostendit, nihil
ex his este perpetuum, aliasque potius observationes adhibendas esse, ad quas curantis consilium dirigi debeat.
Interest enim, non que estas sit, neque quid in corpore intus geratur, sed que vires sint. Ergo si juvenis imbecillus est; aut si mulier, que gravida non est, parume valet, male sanguis mittitur, emoritur enim vis, siqua

Supererat, boc modo erepta. At sirmus puer, & robu-

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elsw. widem fins senex, & gravida mulier valens, tuto se curantur. I have seen some of all Ages phlebotomised, and have preserved the lives of some small Children by that means 3 even Pleuristes. But the effects of Phlebotomy in a pleuritic woman, which was within a fortnight of her time, are remarkably described by that cautious Practitioner, Baldassar Timæus: He did not scruple to let a gravid woman blood, but she was so far gone, as that he trembled: " Tandem non tantum adstanstibus mulierculis, sed & ipsa æzra venæ-' sectionem vehementer urgente, exemplo Pes tri Salii Diversi, qui ultimo mense, & infante partus tempore feliciter venum aperuit, jeci aleam, & secta mediana sanguie nem ad uncias circiter sex detraxi, & sic

I have seen Ladies with child to be let blood, when they were continually swooning, and fainting, and extream weak: and that judicio fly: for they having large veins, and otherwise a firm and imperspirable hibit of body, we did not regard the Animal imbecillity, now the irregularity of a pulsa altered by vapours, but proceeded to cure them by Phlebotomy: and it prospered.

Baldaff. Timem respond. Medic. 58. Petrus Salius Diversus deaffect. particular, c.xxvii,

optato successi or matrem or fatum a prasessimilimo vita periculo, Dei gratia, liberavi. There are a multitude of things to be considered by him that would judiciously practise Phlebotomy in Pleuristes; besides what I have intimated: as Whether it succeed another disease, as the Measils, or be primary: Whether it be complicated with other distempers, or solitary: Whether it be crude, or upon concoction: Whether it be likely to be long, or short: Whether the Patient do expectorate,

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ornot, If be do; what colour, and what confifence, or taste the evacuated matter bath: Whether the disease be upon a recrudescence, or not: These are circumstances which he ought well to understand, for as to the time of phlebotomy, 'tis one in a long disease, when the beginning is protracted to feven, ten or feventeen dayes; and another in that which will terminate in feven daves: the urgency is one in an incoct Pleurisse, when nothing is (in due time) expectorated; and another, when blood, or purulent but benign matter is avoided: and another when the matter is black, livid, very vellow, or stinking, or sweet to the taste: the case alters when Nature doth ease her self by a propitions loosemeß, and when it is an importune Diarrhaa: when it turns to an Empyema, and when it proceeds to an amicable Crisis. These things are to be pondered by the Physician, and his repute is not to be questioned, for his actings, by such as understand not the case, or apprehend not by what exigences and prefidents the intelligent Practitioner is guided. Men ought not to judge of Difeases by their names only; and condemn a knowing man for doing that in one disease at one time; which neither they nor he would adventure in another; and fince it is not allowed us to abandon our Patients in some cases, according to the advice of Hippocrates: give us leave to make use of that Apology which Celsus doth suggest unto us : "Fieri tamen opotest, ut morbus quidem id desiderat, corpus tamen vix e pati posse videatur: Sed, si nullum tamen appareat alind auxilium, periturusque sit, qui laborat, misi temeraria 'quoque via fuerit adjutus, in hoc statu bont " Dedici est oftendere, quam nulla spes sine sanguinis detractione sit; faterique quantus in hac ipsaremetus ifit, & tum demum, si exigatur, Sanguinem mittere. De quo dubitare in ejusmodi re non opoztet Satinsest enim anceps auxilium experiri, quam nullum. Let the World rest assured, that an understanding Galenist

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lenist doth nothing rashly: that he considers of all circumstances, and knows their case better than themfelves; that he hath as great a regard to the prefervation of their vital strength, as they can wish: and apprehends when to desist, and when to operate, and in what manner: but these are mysteries to the Baconists: and I can give no better directions to the feek, than that they would apply themselves to a prudent Physician, rather than Quacksalvers, and refer themselves to his judgment, without imposing their own, or that of ignorant Experimentators, and Arcanists. And so much concerning Phlebotomy in Pleurifies: the more exact handling whereof, and the accommodating of the Method of Rulandus to that of the Galenists, must be the subject of another discourse: I add only, that Nature it self doth teach us the use of Phlebotomy in Pleurifies; for they are often accompanied with a bleeding at the nofe, in the beginning, which is beneficial to the Pa-Larvi sanguinis fluxus ex naribus multa sol- Hippocr. Epid. vunt, ut Heragora. Non agnoscebant Medici. Though 1.2. sect. 3. it happen symptomatically, yet is it frequently advan- p. 102. cum tageous, even in Pleurisses: nay tis an accident we may Prosp. Alpinus commonly expect in them: Quibus febricitantibus de prasag.virubores in facie, & capitis vehemens dolor, venarumque 17.c.2. pulsus, its ut plurimum stuor fit sanguinis: and in a coac. prænet. pleuriste, 'tis alwayes the most mild and safe, if the 1.4. v. 30. Patient begin his Anacathar fir by a Sub-cruent Sputa- de præ'ag 1.7. In fine, the usually terminates this Feaver by an c. i6. Hæmorraghy at the Nose, which if it be small doth por-in lib. 1. de tend evil; but if it be large, is beneficial. Pleuritis morbin, p. 1703 larga hamorrhagia enaribus judicare potest, stillatione Holler. apud non potest. And this good fortune did recover De. 1.5. sed. 24 mosthenes out of an incurable Pleurise, as he relates it sect. 59. himself. " Febres me continuæ sequebantur, & cru- Demosth. adv. Canou. citante ciatus totius corporis perquam vehementes & atroces: Beverovicio imprimis vero laterum & imi ventris: neque cibum de Med. vet? capere poteram; & ut Medicus quidam affirmabat, ni si part. 3.c.76. mihi p'312.

mihi doloribus afflicto, & jam desperata purgatio sanguinis ultro copiosa supervenisset, me saniosum (iuavo) factum suisse periturum: nunc is sanguis recessumihi suo saluti suit. I have not the original by me, to consult the Text: but whether it were at the Nose, or by stool (I believe the former) it is all one to the present purpose; but it may seem pertinent to observe, that those which bleed much at the Emeroids are not incident to sleurisses.

Hippocr. Epid, 1.6 sect. 3. p.665. cum notis Vallessi.

pag. 80.

The subject of my next discourse must be concerning Phlebotomy in the Small Por: My Adversary blameth Doctor Willis for allowing of Phlebotomrin the Small Por, upon the nick of their eruption: but by way or Argument against the judgment of that eminent Practitioner, he alledgeth nothing but this: " Make this good by fact, that 'tis profitable and necessaty in any such case to open a vein (for dor & con, will · never carry with me ) then I shall forthwith become a Froselyte to your Meshod. Assuredly this, I am certain of it, was neither profitable nor necessary for the Nation, that we should by this means loose three persons of the noblest extract. \_\_\_ I have alwayes looked on the discourse of that Learned man concerning Feavers, as one of the most judicious Writings that ever our Faculty produced: 'tis fuccinit without obscurity, and without the emission of any circumstances that frequently or rarely fallunder the consideration of a Physician, and the praftise, as well as Dedicaments fo lafe, so authenticate according to the Rules of Art and practical Observations (which we preserve) that tis above all the effects of Envy and Dalice.

It is a great abuse to the Dostor which this Baron=
faced Helmontian put upon him, as if he approved
generally and indefinitely of bleeding in the Small
Por upon the nick of their eruption. It appears there
not to be his practife, but upon urgent cases; and

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be, on purpose relates an History of its evil effects, thereby to deterr others from using Phlebotomy rassly in that disease. I shall repeat his words, and method or curing it, as far as relates to the beginning of the disease. Quoad primum intentio sit, ut natura impedimenta Willist.de sebr. c quævis anferamus, quo sanguis, variolarum fermento in- c. 15. quinatus, & coagulari aptus, adbuc motum aquabilem in corde & vasis stagnatione retineat, ac effervescens porc tiones cum veneno gelatus foras expellat: interim caustio sit ne fermentationis, seu effervescentiæ opus ullatenus cobibeatur, aut nimium proritetur: boc enim cruoris massa plus debito in portiones congelatus agitur, isto restringitur nimis in motu, nec particulæ vinenatæ cum cruore gelato for as emandantur: natura a secretionis c & expulsionis opere impedire solet nimia excremento. crum congerie in visceribns, aut sanguinis exundantia in vasis; quare primo statim morbi insultu deinda erit opera, ut evacuatio per vomitum, aut sedem, st.opus fuerit, tempestive procuretur, pharmacis tantum mitioribus & blandis utendum est, que nimirum non irritent, ant bumores perturbent: quare hoc tempore interdum emetica, purgantia, aut enemata, modo bæc, modo ista locum babent: etiam sanguinis missio si plethora adsit, bono cum successu celebratur. --- Circa missionem Ganguinis instante variolarum eruptione valde ambigitur: oliminter nostrates hæcres sacra andiebat, neque c subullo necessitatis prætextu Phlebotomia admitti solebat: nuper autem experientia duce in quibusdam casions fanguinem mitti omnino utile & necessarium esse com. e probatur: que tamen evacuatio se in quavis constituctione indiscriminatur adhibeatur, aut quando isthac copus sucrit, in quantitate nimis larga peragatur, magna · sæpe incommoda exinde sequuntur.

These are the words of that intelligent person; whereas - G. T. feems in the English Text to affix upon him such a sentiment as if he allowed commonly

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and indifcriminately of Phlebotomy in the very nick of the coming out of the Small Pox: But it may be replied. that he hath done the Doctor justice in the Latine citation: but I think not amongst English Readers, nor in his vulgar discourses. However I shall endeavour to justifie the aforesaid Method of Doctor Willis as Artificial, and agreeable to the opinion and happy practife of the best I by sicians: and that it may be more manifest, I will inlarge my work, by examining the contrary opinions of some others: for-G.T. gives my Pen here no employment, except it be to tell him, that the three noble Personages which he speaks of were not the Doctors Patients, as Ibelieve: except he be accountable for all that act agreeably to that Method which He (and our best Physicians) layes down: Iadd, that many Actions are warrantable by Art and Prudence, which are not successful; and to requite bis Catalogue, I would have him know, that when this young King of spain had the Small Por, he was let blood several times: and so was the present Queen of France upon a feaverish indisposition let blood twice, in 1663. and two dayes after the Meafils appeared: And this Lemis xiv. being fick of the malignant and pestilential small Pox was thrice bloded by Doctor Vautier: and for it, received this Elogy from the learned Jaco-Racob. Thevart bus Thevart. — Ut boni omnes Galli palam profitene tomi tertii antur ac prædicent suum se tibi debere Regem charissimum, quem nempe malignis ac pestilentibus variolis periculosissime laborantem non cordiacis tantum præsidiis (ut D.D. Francisco Medicastrorum aucober vulgus solet) sed & ipsa, quam Vauter Archi. in ejusmodi affectibus aversantur ac damnant, sanguinis missione ter, pro symptomatum urgentium necessitate, repetita, salvum & incolumen restituiste, innumeris interim in hac urbe populosissima pueris hac Epidemica lue e medio sublatis. Quod ob facinus tam egregium que non tibi laudes, vir præstantissime, que non soteria debentur? Si qui civem Romanum in prælio servaverat, anercea:

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quercea corona dignus habitus est, Tu certe qui Regem Christianissimum ab hoste tam infenso liberasti, auream, qualis est ab Athenien sibus Hippocrati concessa, meruisti. Nec dubito quin si vixisses priscis illis temporibus, quibus inter Heroas referebantur quicunque insigni aliquo facinore Rempublicam conservassent adjuvissentue; quin, inquam ipse Heroum auxisses numerum, bonoresque prope divinos accepisses. I repeat this passage with the more satisfaction, because it may serve as example to the Englist, and instruct them with what gratitude and acknowledgments they ought to treat the learned and renowned Physician Sir Alexander Frasier, principal Physician to his Mujesty, for recovering our most gracious soveraign of the like distemper, by the judicious administration of Ablehotomy. I could name many other Persons of Honour, who do confess that they owe their recovery out of dangerous and malignant Small 1900 unto Phlebotomy. In acceptage in la house and lan

- Of those that have written concerning the Sittail Por, and are therein professed enemies to 25 seding, I shall take only two particularly to task; the one is Doctor Tobias Whitaker, the other Doctor Thomas Sydenham: which I do the more willingly, because the one writing in English, the other practifing at London, and endeavouring to insinuate his principles every where, with a derogation from the anthorifed practite of Physicians, it must needs icem that all who do not take his course, have neither regard to the Patients, nor considered feriously the rife and progress of the difease. I did at first doubt, Whether Fought to reckon them as Dillinat Authors; because they so far agree in the Regimen and Cure of the difease; that the one doth . . . . feem to have follen it from the other: As will appear by this Paralleliged on or endurant philographs I residently to the property of the

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Doctor T. Whitaker of the Cure of the Small 190t, p. 22.

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"In the Regimen of this Disease, the whole work consists in moderation of Air and Diet, without any other mixtures of violence, or bland impediments, which may altogether pervert, or in or by a eless force retard Nature in its motion, the motion of Nature in this case being from the beginning of the disease to the eruption of the pustules Critical, and in Critical motions the least application of any Medicament is so dangerous, that no expert Physician will admit of it. The Diet is to be Alimentum medicamentosum, such as is Milk with Saffron and Marigold stowers.

Doctor sydenham doth suppose that it is natural for the Blood of all persons at least once in their lives c to undergo a great change, and as it were a new form: and that there is no peculiar venome or ma-\* lignity infecting the Blood, but all is the result of this 'inclination in it to exchange its state; and in order 'thereunto some parts are to be expelled; and in order 6 thereunto must first be separated: This is done by a Feaverish Chullition in the mass of blood, whereby those parts are separated from the residue, and disgreat ebulliti. charged into fleshy parts of the Body, which Nature on is not con- c looks as requifice in order to the change she is going Smoll Poz, but to make: All this is usually done in four dayes, and that the sepa- cthe Blood is recomposed and becomes as calm in its mopulsion is fre. tion, as it was before. The expelled matter is to be quently per celevated into pustulary abscesses, and there maturated formed with and dryed up. For the carrying on of all this work, sense thereof, it is his judgment that the Physician ought to Do no= the Patient thing: But the Patient is to be kept in a moderate ning himself beat, and temperate diet, taking nothing that is cold;

He observes that this Fesverish, or to the chamber.

and not so much as being confined to his bed beyond his ordinary use, except necessity require it, and then he is to use no more clothes, nor warmth than he accustomed himself unto in health, not so much as being obliged to keep his armes in Bed. On the fourth day he gives them one very gentle Cordial to promote their eruption, and abandons them to Saffron and Milk, to be given twice a day, and ordains that he be kept in a constant moderate warmth, such as is natural, and usual to the Patient.

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This is the sum of his Method, except I add, that when they are upon maturation, he gives a mild Cordial twice each day, morning and evening: And in case that during the time of the decumbiture of the Patient by any accident a new Feaver arise, then is the Patient to be kept still in such a proportionate heat as is usual to him in health, if the season be temperate, he is not to have a fire; to be dieted with small Beer and Water-gruel, stemed Apples, or the like, but to have no Cordial, not so much as Harts-horn possets drink.

By this Method Doctor Sydenham doth not doubt but this disease which so a frighteth people, and is so frequently mortal, will pass off with much gentleness,

Betwixt these two there is a little discrepancy in their Method of curing the disease: though there be some in their expressions, and Doctor Sydenham doth seem the Comment, the other the Text. Both of them oppose Phlebotomy, Vomits, Purges and Glysters, as well as Sudorifics. Though they differ in the reason for their rejecting Phlebotomy; For Doctor Whitaker doth avow, that it draws from the Circumference to the Center: But Doctor Sydenham yields, that it produceth a quite contrary motion, and causeth the Small Pox to come out.

p. 65.

Doctor Whitaker doth avow, that this course of his is the old English Method, and the ancient, natio= nal and successful government of our Ration. But Doctor Sydenham would seem to erect his practise upon his own Observations; though all he promote (in a manner) be no more than the common actings of Countrey-people's (except when by any accident the Feaver be exasperated in the beginning, or progress, that he probibits Cordials ) and what I belive was derived from Avenzoar, and Fracasterius

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P. 25.

Of these Writers it is remarkable, that Doctor Whitaker doth never allow that there can be any malignity in the Small Por so great and urgent, as to induce a Phylician to intermeddle beyond a moderate Diet, and temperate Air: because the Motion being Critical, admits of no violence. But this is a great Errour in the fundamentals of Physick. For, first in Diseases complicated with malignity, not only the prognosticks, but the issues are very uncertain as to life, or death, and the Orifical evacuations deceitful, so as that oftentimes they bring a momentary alleviation; oftentimes, notwit. & morte, withstanding those evacuations, the distemper increases, and the Patients dye: This every man understands who is conversant in our accounts of Malignant Feavers; fo that to grant at any time that there is a malignity, or venenate indisposition in the fick, and to abandon him to attemperate Air and Diet, relying upon Saffron and Milk, is a practise never to be justified in Physick. But alas! we are not to be afrighted with the bug-word, Critical motion, nor half an Aphorisme out of Hippocrates; viz. Qua judicuntur, sinere

Prosper. Alpin. de prælag. lib, 6, c. xi.

> der in a Crifical motion several things: First, (Supposing it to happen in its due time) we must consider whether it be only a Motion, or whe-11 500 L ther

> oportet. These general sentences neither qualific a

Doctor in Law, nor a Physician . It becomes us to consi-

ther it be proportionate to the Disease: for no evacuation that is diminute, is properly Critical: If therefore the pathognomonies of the Disease be such as argue a multitude of the small Pox to be requisite for the recovery of the lick, and only a few come out,

the Physician is obliged to assist Mature.

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Secondly, Supposing that they do come out plentifully, yet if they be not such as should come out, but black, livid, green, or interspersed with purple spots (not to mention other circumstances, which every Nurse cantell) itis certain that the evacuation ( how critical foever) doth not oblige the Physician to stand an idle spectator: No more ought be to be in cafe that all symptomes increase upon the critical motion; and his Feaver and dangers multiply thereupon. Ta gapiorsa Hippocr. Aphi μι τω πλήθει τεκιιαίρεθαι, αλλ ώς αν χωρεη δια dei, η φέρει δυφόρως.

Thirdly, It is requifite that the Critical evacuation be per loca conferentia, by fuch wayes as are necessary to the disease : But if the Small Por during their cruption be attended with a dy fentery, bloody urine, or other pernicious excretion; that fran of Hippocrates will not excuse the Physicians negligence; for it supposeth that all the conditions requisite to a good evacuation be found in that which the Physician is not to intermeddle with. I need say no more to intelligent persons: 'tis not my present work to turn Institu= tionitt.

Whether Doctor Sydenham intend to ascribe fenfe, appetite and judgment unto the Blod I cannot well tell; but either He canteth in Metaphors, or explaineth himself, in his general Hypothesis about feavers, as if his meaning were such: " Quinimo nec, mea fententia, minis liquet febrilem sanguinis commotionem Sæpe (ne dicam sæpius) non alio collineare, quin ut 'ipfe fele in novum quendant statum, & diathefin immutet, hominemque etiam cui sanguis purus

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o intaminatus perflat, febre corripi posse: sicuti in c corporibus sanis evenire, frequenti observatione come pertum est, in quibus nullus apparatus morbificus, vel e quoad plethoram, vel quoad cacochymiam fuerit, nulla insalubris aeris anomalia, que sebri occasionem submi e nistraret. Nibilominus etiam hujusmodi homines, præcedente insigni aliqua aeris vel victus; caterarumque ererum non-naturalium (ut vocant) mutatione identidem febre corripiuntur; propterea quod corum san= cauis novum statum, e conditionem adivisci Gestit, qualem ejusmodi aer aut victus postulaverint: eminime vero quod particularum vitiosarum in sanguine fabulantium irritatio, febrim procreet. 'Tis true he did not pen it in Latine, but another (Mr. G. H.) for him: and perhaps his skill in that tongue may not be fuch, as to know when his thoughts are rightly worded: But it seems strange and irrational to attribute such an understanding to the Blood; and to transmute a natural Agent into one that is Inontaneous: and, which is more, having representedit as such, to make it so capricious as not to know when it is well; but to run phantastically upon such dangerous changes as occur in putrid Feavers, and the Small Pox; for even in this last ariseth from a desire the Blood hath to change its state. Since natural Agents demeanthemselves uniformly, and of them'tis most true, Idem, quatenus idem, semper facit idem : I was surprised to see these new principles, and to see effects of this nature arise without any cause. It doth not seem possible for him ever to demonstrate that there is no Plethora, or Cacochymy, or obstipation of the pores of the body antecedent to a Feaver: nay the contrary feems evident to all Physicians; nor ever was there any whereunto they did not attribute some procatardick cause. Besides, he doth not alledge any Reasons, or Experiments, to shew that there is any alteration in the blood before and after the small Pox, or a Feaver, or

p. 127.

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any difference betwixt the Blood of such as have had those diseases, and of those which have not had them. So great a supposition ought not to be made without ground. And fince it is natural ( and Nature is constant ) why is not the Disease more ancient and universal than it appears to be? For, if there be any grounds to think the Sinall Por to be of long continuance, 'tis certain 'tis but seldom spoken of by any old Whiter: perhaps once by hippocrates (yet so as never to be understood by any that hath not seen the indisposition) and never by Galett. It may be imagi- nisclimacter. ned to have come from Ægypt by contagion, and might p 726,727. have been called Busasse Enun, Quiaurbi Bubasti Ægyp- Tis Epidemitiæ familiaris bic morbus. It infesteth some places at this day. more than others. In Oræcia non adeo frequeng, Profp. Alpin.de Toeo antiquiozes Bedici vir eius meminerunt. 1.1.c.14. In the West-Indies it was not heard of till the Spaniards Roderic. a came thither: and they (as also the English there) Fonfeca Conseldome have it. I believe the Disease to be novel, t.r. consult. and of no longer date than the Sarracenical revoluti- 48. on: I could instance in the nature of such great alterations, that they have ever been preceded and accompanied with many petty changes in other things: and if ever I have so much vacant time as to make political reflexions upon the rife of Dayomet, I may declare much to this purpose. This is that invidious subject about which Eccholius Glanvill makes to much noise: as if, to avow that Mayounet were a Sentile= man of noble extraction, married to one who for birth, riches and beauty might have been a 1971110018 5 and accomplished with that foher Mertite, Wit, Ele= quence, and Coucation, by much travel (tor he travelled all over Ægypt, Africk, and Spain) as to render himself one of the most considerable of his age: or to say that the Thuilians were so ignorant, and debanched, and perfidious, and addicted to Legends more than to the sound Dectrine of the Gospel, at that

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time, that most of the Fables in the Alcozan were accommodated to the honour of the times, more than to frush (and so Mahamet told them.) or to say The pretended to revive Ancient Charillianity; were to be an Apologist for the Bahometans, and an abettor of the Alcozan: Whereas none but the Illi= terate can deny thefe things: and the Age our Virtuofo speaketh of is the Age of Apostacy, according to the Doctrine of our Church. Oh Heavens! to what an height is Impudence and Ignozance arrived! Or what can be fafe, if so prudential and generous a design as I had must be calumniated by such a R --- in this manner! But to resume my discourse, in the behalf of my opinion concerning the novelty of this difease, (besides what the learned Mercurialis hath said) Roderic & For I shall conclude with the words of Rodericus a Fonfeca, which are these. " Si ex nativitate esset, ab initio chin. de febr. s mundi fuisset, aut saltem ita frequenter tune, ut nune c. 54. vice & c solet esse: et licet antiqui aliquam de bis pustulis menmorb. puer. "tionem fecisse vist sint ea certe exigua est, & dubia, ut certum sit, vix illis temporibus fuisse talem morbum: e negligentissimi certe habendi essent, stam ingens, com-" mune, & frequens malum; illotis manibus, silentio ine voluissent: & cum morbus sis puerilis, Hippocrates eas c numerasset inter ætates,3. Aphor. ubi diligentissime puec. 109. lect 1. c rorum morbos connumerat; & tamen nullam hujus mali fecitmentionem: sed illud satis demonstrat, bunc mornoct. genial.7 bum novum esse; quod in multis mundi partibus nunequam visus fuit, ubi nunquam apparavit, nisi postquam 'Hispani eo pervenere: siquidem per contagium Æthiopis cujusdam illuc delati, magnam Indorum partem su-fulit.

> I might here infilt upon the Hypothesis of Doctor Sydenham, concerning the Inclination of the Blod to change its state: I cannot believe but that the Physicians understood themselves as well before he writ;

Aca in append.ad Inc. fect. 2. c. 1. p. 258. Hofman. Ani madu. in Monton. C 7. 1act. 15. & Instit. 1. 3.

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P-456, 457.

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writ; when it was faid, that there was in every one that was born, something of impurity in the body, which was naturally to be purged out by an ebullition in the blood, and such an effervescence as terminated in those Abscel= sus called the Small Pox. ', Quandoque accidit Avicenno de in sanguine ebullitio secundum semitam putredinis sebribus, c. 6. cujusdam de genere ebullitionum que accidunt succis: e & talia quidem accidentia fiunt per eam, ita ut partes eorum ab invicem discernantur. Et de bocest cujus causa est, res quasi naturalis faciens ebullitionem sane guines, ut expellatur ab co illud, quod ad miscetur ei de reliquis nutrimenti sui menstrualis, quod erat in hora imprægnationis, aut generatur in eo post illudex cibis e fæculentis, & malis, de illis quæ rarificant substantiam ejus, & faciant eam ebullire, donec fiat & substantia recta fortior prima & magis apparens : sicut illud, e quod natura efficit in succouve, it a quod rectificat ip-' sum, faciendo vinum similis substantiæ: & jam exe pulsaest ab eo spuma aerea, & fæx terrena. He that can English this passage will find in it the chullition, separation, expulsion and despumation of our Doctor. In truth those terms, nor that which he imports by them are no novelty amongst Physicians: and Rhases (as Sennertus saith) doth not make any mention of those uterine impurities as the cause of the pessient. c.1. Small Por, but compares the Blood to Must, in Sennere. de in which some impurities are to be separated by Ebulli= febr.1.4.c.xii. tion. Wherein the whole Hypothesis of this semi-Virtuoso is contained: However, I cannot allow any more to his Observations, than if a man should go without his doublet, and pretend to a new Bode of mearing Breeches. But that which is most intollerable in Doctor Sydenham is, that He seems to attribute all the evil consequences of the Small Por to the indiscretion of those that attend them; be they Nurses, or Physicians. Thus (p. 150. Edit. 2.) he makes as if Nature did discharge it self in that disease into the fleshy parts A a 2 only:

Gista Medica,

p. 594. Fernel patho. 1.4 c.18. & de abdit. rerum causis, lib. 2. c xii. Collido obf. in Holler, meth C. 92. woolf. Ana. tom, 9.

p. 138.

In genere billos icto, quam taide erumpere.

Hor, Augen, de only: fo that if the Eyes, Lungs, Stomach, Guts, Pansebrilipie xx. creas, or Membranous parts be affected, 'tis not the vio-Oux ex qui. lence of the Disease, but the ignorance of the Attendants bus, 1.3. c. 16. which occasioned that: which is intolerable for any Th. Barboline man to fay, and refuted by Experience.

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I might proceed to demonstrate that there is not anv thing new in the whole Cure which Doctor Sydenham uleth: that in the beginning of the Small Pox, before the eruption, being as ancient as Bayrus, if not derived from the Arabians: And the rest hath been inculcated by an hundred Writers: provided the Small Pox were Io. Dan. Horfi- gentle: yet, as much as they have been for the keeping of them moderately cool as to Air, or Diet, before the eruption of them; yet I dare say our Doctor is the first whoever did imagine that the longer they were in Dr. Sydenham, coming forth the better it was. Mihi quidem rationi consentaneum videtur, ut quo diutius Natura separationem molitur, ac perficit, dum modo ebullitio non omnino torpeat, eo certius atque universalius eadem separatio absolvitur. For our best Writers, as Mercatus, Augenius. melius ell va. Forrestus, Sennertus, Riverius, Ronchinus, and others, riolos & mor- do avow, that the somer they appear, the better is the preface. But all this while his discourse extends no furtherr, than to that fort of Small Pox which is febr. 1.4.c.xii, mild and favourable, not accompanied with any perillous or mortal Prognostics. but should any such case happen, these two Doctors leave us in obscurity, and we must help our selves, for they give us little of assi-

I shall therefore proceed to enquire what directions the most judicious Writers, and Rules of our Art prescribe unto us in this Disease.

It is confessed that the Small Poware sometimes so mild as not to be accompanied with any Feaver, or evil symptome at all, so that the Patient need not be confined Pan.

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fined (at least is not) to his Chamber, and any strictness of Rules: This is granted by Avicenna, Rhases, Coylestus de-Schenckius, Hollerius, Epiphanius Ferdinandus, Coytta-purpur sebr. rus; and Franciscus Rubeus, whose words are these: Variola aliquando sine febre, & aliquando cum febre Rubem Nomibi & placidissima, nonnunquam cum febre acuta, & cturn exer.7. quondoque cum febre maligna erumpunt. In this case in scholiis. there is no doubt but the Physician may do nothing, and ought to do little, there being no need of his affi-

It is confessed that sometimes the small Pox are attended with so gentle a Feaver, of the nature of a Synochus simplex, that the Patient may do very well, by the directions of Doctor Whitaker, and Doctor sydenbim. Yet must I add, that, Supposing the truth of these two Cases, I cannot conceive it proper to imagine that the small Pox are then a Tritical motion of Mature: there being in the one juncture no Disease whereof they should be a Ctilis; in the other no such Disease as to discharge it self in so copious an evacuation. The Notion of a Ctifis in the production of the Small rox will feem more absurd, when we consider how frequently it happens, that notwithstanding their coming out plentifully, the Feaver doth still continue, and increaseth the dangers of the Patient. Besides, How is it a Crisis, when there seldom proceeds any Coction, and when the preceeding Disease observes no times?

Of those Diseases which terminate by a crisis there is a great variety in the evacuation infuing thereupon, as an Hamorraghia, looseness, sweat, prosusion of urine: but here, whatsoever the nature of the Disease be, a synochus simplex, putrid, malignant, ortertian Feaver, the Crisis by the Small Pox is constantly the same: and the expulsion not only towards the skin and babit of the body, but every way, as on the stomach, Throat, Lungs, Guts, &c. and after this kind of Crisis it frequently

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Greg Horft. t. 2. p. 55.

Hor. Augen. de febr. l. 9.

quently happens that the Patient dyes, no errour inter-Toseph de Me- vening: whereupon Joseph de Medicis exclaims after forty years of practife. Hei mihi, quoties malitiose variole me fefellerunt! And Augenius, though he be inclined to the Opinion of Doctor Whitaker, to explain this criss, is forced to desert the vulgar notion of a salubrious Crisis, and include in its definition, even those that are noxious, saying out of Galen: Crisis est mutatio quadam subita ad salutem, aut mortem: and after all concludes thus: " Hæc se vera sunt, oftendunt redissime dixisse Arabes, variolas contingere per ' modum cujusdam Crisis; signidem modus quidam est particularis, quo febris magna saneri crisi con-C suevit, longe distans ab alis. Omnes enim aut per vomitum, aut per alvum, aut per urinas, aut persudores sanantur; ut hujusmodi febris nulio ex illis sanatur modis, sed persolam superficiem, non extimam solum, ut ardentes febres, que sudore copioso superveniente liberantur, sed extimam & intimam simul, utque sic per cabscessus parvos, quos pustulas nuncupavimus, ubique e procreatos. Nunquam alvi sluore, nunquam vomitu Janantur; imo si forte adveniant, pessimum signum est. But if wetake Crisis and Critical evacuations in this sense, 'tis certain then that a Physician may and ought frequently to intermeddle, notwithstanding that Nature is already engaged critically, and the foundations of this Doctor are threby overthrown.

I add, that if the motion of the Small Pox be critical, then is not the Small Pox properly a Disease of it felf, but the termination of one. And therefore the Arabians did prudently say, that the Small Pox do hapand, Ithink, pen, per viam cujusdam criseos, in the way of a Crisis, not that they are properly the Crisis of another disease. ans, who make They are generated by an effort of Nature, which dischargeth it self of certain humours which are offenfive unto her by their quantity, or quality; and this is criss, but not done not by their eruption in the exteriour parts, but

febr.c.6. with whom agrees Fracastorius, ty of Physicifome resemblance of a

Avicenna de

even in all the entrails, and other internal parts; and sometimes this evacuation is a discharge of so crude, malignant matter, that it is destructive to the fick: which is not usual in a Criffs; and this is that which the Arabians call Ebullitio secundum semitam putredinis; which made Fernelius and others afcribe thereunto a venenate quality. 66 Hoc & morborum fædi- Fernel, de abtas testatur, tam deformis aliquando visa, ut occaeutis dit rer. causis coculis, universa cutis in squammas fætidas & in crustas lib. 2. c. xii. ingentes solveretur: corpus omne non aliter contabese ceret & macie nigroreque torreretur, quam si menses quatuor e furca pependisset.

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It is avowed that there is more than one fort of Feaver which is antecedent to the eruption of the Small Pox: and common Reason will tell us, that in such cases the Physician must vary his Method: if the Feaver be a Synochus simplex, without any putrefaction, 'tis not to be doubted but that the Small Pox may be cured by the course prescribed by Doctor Whitaker, and Doctor Sydenham: but what if it be a Synochus joyned with putrefaction, or malignity? Must we then abandon Nature to her self, and stand Idle Speitators amidst fo great and visible dangers? If the Small Pox be a Crifis of the Feaver, what influence hath that consideration upon us, before the time of the Trifis? Are we not obliged to facilitate and secure the Crisis by convenient means before it approach? May it not otherwise happen that there will be too great a redundancy of humours, fo that Nature will not be able to guide them orderly, and for the benefit of the Patient? Do not we see this frequently to happen, where no irritation hath been through Sudorifies, or other Medicaments? Doth not it often happen, that Nature not being able to command the turgent humours, they have so fixed themselves in several principal parts, occasioning Swoonings or Syncopes, Dysenteries, as to destroy the Patient Joh. Michael Føbr. de Scor-

Patient in the beginning? or so to imbecillitate him. that he hath afterwards languished in a Consumption, been deprived of his eyes, or limbs, and subjected to incurable Vicers? It was observed in Germany, in zonera. p. 81, 1644. that the Small Pox reduced some to an Atrophy, Asthma, and Consumptive coughs: some have had not only the babit of their body ftrangely vitiated and altered; but even their bones corrupted and corroded into a Pædorthrocace, or Spina ventositatis: some have had the Articulation of their Joynts so depraved, that they have become immoveable, or crooked. Oftentimes we see that after the first Feaver is abated, and the Small Pox come out in great plenty, a loofeness follows, or a new Feaver prevents their maturation and destroyes the Patient.

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From these Considerations I dare considently deduce this Conclusion. That it becomes a Physician in the Small Pox, to examine well in the beginning, the. constitution of the Patients body, if it redound with peccant Humours, or no: it being easie to apprehend, that what is a Cacochymy before this Disease, will degenerate into a virulency and malignity in the course of the Disease: If it redound with too much Blood, as having more than is requisite for the commodious difcharge of that Disease: for if the body be either way Plethoric, there is apparent danger least the Patient be strangled, or that the turgent Humours, being either streightned for want of room, or too luxuriant to be guided, will fall upon some important part, and so create inseparable evils in the progress of the distemper. He ought also to inquire diligently into the preceding season of the year; since that adds much to the mildnes or perillousness of distempers : As also into the present bekneß, whether it be in others attended with any thing of unusual malignity, or pestilence: for in such a case, he must increase his care, as dangers multiply... He ought

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ought also to weigh well the first Symptomes, whether Hor. Augen: they be so violent as that the Patient is not likely to de fabre l. the have frength to support the continuance of the Disease: If the Feaver be great, and accompanied with swoonings; if the Patient being thirsty, restless, molested with a vomiting, difficulty of breathing, a dangerous Cough, violent and ill-coloured Diarrhea, or Dysentery, bloody or black Urines: It is not to be doubted in these cases, but the Physician is to make such provision, that so ominous a beginning may conclude well, if it be possible. And since so great a distemper requires great and generous remedies: two things will at first (if he come timely enough ) fall under his debate? viz. Phlebotomy, and Purging.

Concerning Durging many are very timorous, because that a Looseness is dangerous in the Small Pox: as also because that they fear least it should divert the Humours from their natural tendency, and draw them into the Bowels. But neither of these Reasons are of any great validity. For neither is a momentany Loofeness (and 'tis that which is equipollent to a Minorative purge) dangerous in the first beginning of the Small Pox, before they come forth: Nor is there any danger that a gentle Purge should create a Flux; but rather prevent any such subsequent evil, by carrying off the peccant Humours, which by continuing in the stomach and intestines would contract a malignity. And indeed this consideration is of such importance, that it ought to sway a Physician to give some Lenitive in the beginning, when he fees occasion. Neither will he thereby divert Nature from the expulsion, but rather facilitate it, and by diminishing part of the redundant Humours, enable her to overcome the rest with more ease: whereupon Augenius, Ranchinous, Franciscus Rubeus, Riverius, Gregorious Horstius, and other excellent Pra-Etitioners do take this course. And Ballonius observes: Bb

1.6. obl.49.

Ballon Boid 1 An commode prascribi possint medicamenta antih.p. 37. vide quam morbilli se produnt? An illa impediunt motum Forrest. obl. anaturæ? Imo inopinato venam secuimus, & medicae mentum purgans dedimus, quibus die sequenti, aut poc stridie apparerent variole, & melius multo habuerunt, quam quibus non aust fuerimus idem exhibere: sic paerum probabile, quod dicitur, minus affatim erum= enere populas a corpus ante purgaveris.

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As for Phlebotomy, were it not for capricious humonrs. or indifcreet fears of some persons, there could be no question about the legitimate use thereof in this Disease. For there is not any Indication for Blood-letting which may not occurre in the Small Dor: And 'tis as vain a surmise to think that an intelligent Praditioner will do any thing rashly; as 'tis an irrational course (though too common) to censure Men for the ill success, when they are according to the best of their judgment, and the most solid Rules of their Art.

The present Controversie includes two Debates: The one Concerning Phlebotomy in the beginning of the Small Por, before their eruption: The other concerning Phlebotomy after their eruption. In both which cases I do avow, that Phlebotomy may be oftentimes pradently, and sometimes is necessarily administred. I use this manner of speech, because that Physicians do make a twofold use of Blood-letting: One, when the nature of the Disease and its greatness do absolutely require Phlebotomy, as the most proper Medicine, and without which in all mobability the Patient will run an apparent bazard of his life: A second, when it doth not seem so ansolutely necessary to Phlebotomise the Patient. but he may recover by other means, without it: yet because this is the most rational and safe way, Phyficians do infift thereon, that so Nature being disburthened

Ferdinand. Mena comment. in kb. de fange emiffic.22.

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shened and alleviated in part thereby, may with more eafe overcome the rest. Thus in some Diseases Galen pro- 4. de saint. fesseth he omitted to bleed some Patients, because they tuend. mould not indure it : whereas had he esteemed it extreamly necessary, he would not have declined that Remedy, and used a Purge instead thereof: But he looked on it then only as a most convenient Remedy. From whence I deduce, that when soever any man reads any Author that doth not practife Phlebotomy in the Small Pox (as 7. Michael Febr, and one Langius, now Professor of Physick at Leipsich, or Angelus Sala) the uselessness or danger of the Remedy is not to be concluded thereupon: fince it is evident that Physicians are inforced often to comply with the Humours and prejudicate Opinions of their Patients, and the Countries where they live; and do not alwayes act according to their best judgment: Nor doth it follow, that because the imprudence of some hath been, or is successful; that therefore we ought to relinquish the more wife courles, or condemn as needless those cares which Discretion it self doth put us upon. Neither ought we to be swayed by the Regative tellimonies of Writers, or Practitioners: For it doth not follow that what one (or more) bath not tryed, or seen, is impollible, or impracticable: The happy Experience of the Affirming party is the most convincing: as our common Logick informs us. They who condemn Phlebo. tomy in the small Pox, either condemn it because they have experienced its evil effects therein; or because they have only a finisher opinion of it, and some specious reasons against it: If the last; they say nothing of moment: it being the dictate of Hippocrates, 'Oosanμώτο 5 de msevedas μάκον, η γνώμηση. And Aristotle long a- c. 5 go censured those who out of a preconceived opinion Frederic. Boof the event of a thing did form their judgment; and naventura de imagine it must happen to, or to, because they think it mestri. I. s. will Do fo. If they have so often tried the evil fue- coo4.

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cest thereof, 'tis necessary that they consess they have killed a great many thereby; or at least that they profess they have seen the sad Experiments thereof made by others: and to make this any way convincing, they must sirst assure us that such Experimentators were artists, and understood their Faculty so well as to weigh all circumstances requisite to the due administring of Phlebotomy? otherwise the Astions of the most judicious shall be condemned through the ignorance and folly of others: and it must be demonstrated, that the death or other evils which befell the sick, were the direct consequences of the Phlebotomy; and not by accident, and from some particular juncture, or make the all distums simpliciter.

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P. 27.

Doctor Whitaker is pleased to call the practise of Phlebotomy in the Small Pox, the Mode of France; and makes as if that were the principal Argument produced for it. viz. "The greatest Argument to confirm this practise, is, the Mode of France: by the same arguement they would prove stinking and putrid sless, both of fish and fowl to be most comfortable to the sense, and corroborative to the Animal spirits: and if their Rhetorick be no better than their Logick to persmade perfons of reason and sense to accept their Mode, it is most probable it will prove the Mumismata of Sa= 'len, which is a quere that will pass no further than their own Countrey. He afterwards call it the rash practise of Woolsh persons: adding, callit a rath and inconfiderate practife in this Difease, because it is a doubt indetermined amongst the most learned Professors of all Dations, both Greeks, 'Arabians and Latines, and all others principled from them; being all of them unresolved of Phlebotomy in the small Pox, upon any Indication to be a fafe Remedy: And if the disease be conjunct with

p. 23.

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e an undeniable plethory of blood (which is the proper · Indication of Phlebotomy ) yet such bleeding ought to be by Scarification and Cupping-glasses without the cutsing any Major vessel. \_\_\_\_\_ Affertions lo general and peremptory as these are ought to be very well grounded, or else they subject the Author to the imputation of Opiniatrity, and Ignorance. I will not deny but some may have justified their practife by the customary presidents of the French Physicians; who neither want sufficient knowledge in their Faculty, nor prosperous succest to urge against all Cavillers: And this they may have done, not that ever they could judge it a MODE neculiar to the French, but because that Nation is our next Neighbour, and so well known unto us, that theyneeded not extend their discourse further: nor do there want reasons to shew that If it be requisite for the french, and they can bear it: It is moze requi= fite for us, and we can better tolerate it. For our diet is more plentiful, our habit of body more firm; our innate heat, by the coldness of our Climate, more concentrated and vigorous; our redundance of bloud is greater: and our pores more dense and apt to be obstipated, than theirs; and if we may aggravate the malady from the dismal effects and impressions it produceth in the faces of the fick, I think I may say it (I never was in France ) that the Small Pox are morfe in England (which indicates greater Remedies, for the most part than in France, since the disasters which befall good faces are more frequent and notorious here than amongst them.

But, I do affirm that this practife is not only the Mode of France, but of Spain and Italy as well as Egypt and Africk; and that its authentick in high and low Germany, and Denmark: And whereas be sayes that the usefulness of this Remedy, is a doubt indetermined amongst the most learned Professors of all Mations, both Greeks, Arabians, and Latines, and all others.

others principled from them: It is a gross mistake: and there is more of truth in that opposite saying of Hor. Augen. de Augenius : 66 Dmnes, qui de variolis scripserunt;

febi.l.x. c.iv. c unanimi consensu, principium carationis, illarum fieri debere a vacuatione sanguinis contendunt, ideoque venam incidendam este, aut scarificationes adminiftrandas, aut hirudinibus applicitis sanguinis vacua4 juga

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Hippocr. Epid. 1 7. p. 894. cum notis

Concerning the Greeks, I have confidered the paffage in Hippocrates concerning the Sun of Tmionax, and whatever else is alledged out of him, or Aetim, yet cannot be satisfied that ever they knew any thing of this disease. They that do believe it (as a strong imagination may transport a man far ) may reply, that since the Malady was rare then, and different much from ours 'tis not to be wondered that they speak so little of the Cure; and never determine a doubt which they never thought of. As for the Arabians nothing is more certain than that they considered the disease, and all circumstances, and did determine in the behalf of Phlebotomy; and whosoever is principled from them ( as all in a manner of the subsequent Physicians have been) must allow thereof. I do not remember to have read that any of them did ever prohibit Phlebotomy in this cuse, except it be Avenzoar, who is said to have given the like directions that Doctor Sydenham doth, vis. To do nothing in a manner: but relinquishthe work to Nature entirely. How Avicenna determines the doubt, his words will best shew. Opertet in e variolis ut incipiatur, & extrabatur sanguis sufficiene ter, cum conditiones fuerint. Et similater si morbillus fuerit cum repletione sanguinis. Et spatium illius e est usque ad quartum. Sed quando egrediuntur variola, non oportet tune ut administretur phlebotomia, nist inveniatur vehementia repletionis, es dominium materiei: tunc enim phlebotometur quantitate que alleviet, sen minoret. Et convenientius quidem, quod in hac

Avicenna de febr. c. 10.

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hac omiadministratur ægritudine est phlebotomia. Et s ophlebotometur vena nasi, confert juvamentum sluxus Canquinis narium, & tuetur partes superiores a malitia variolarum. Et est magis facilis super infantes. Et quando necessaria est phlebotomia, co non phlebotomatur iterum complete, timetur super ipsum corruptio extre-" mit atis. Whence it is apparent, that amidst such circumstances as amongst Physicians usually seem to require Phlebotomy; he doth allow the practife thereof in the small Pox, before they come out, be it on the fourth dien apud day, or later that they discover themselves. After Greg. Horst. they do appear, he alloweth not, except there be a t. 2. p. 46. manifest plenitude, and surcharge of morbific humours, then he alloweth only a minute letting of blood, and not what is too copious: and adds, that in this disease tis most convenient to let blood; and if the Patient be not blooded in a Plethoric constitution, and that by a repeated phlebotomy, according to the exigency of the case, that is, compleatly, there is danger least the party fuffer the corruption or loss of some of his limbs by a Gangrene, or other evil accident : for when the redundance of the expelled matter is such, that it cannot duly maturate and transpire in the pustules, it frequently corrodes the ligaments, and tendons, and otherwise vitiates the remoter parts of the body; even Worms have been bred in a pestilential Small Pox, all under the pustules : as at Strale fund, in 1574. sometimes the Fr. Joel, prax. matter not finding room to disburthen it self in the 1.9. self.5. circumserence, turns its course into the bowels, and be- sect. 20 gets wortal Diarrhaus and Dysenteries. Of the same opinion is Rhases, as appears by what is extant amongst the Scriptores de febribus: viz. " Si antequam appa- Rhoses (interrere incipiant, medicus agrum inveniat, minuere eum Seriptores de faciat, aut cum ventosis sanguis extrahatur. Dinua= febribus)c.18. tur equidem sanguinis multitudo. It is true, that there he prohibites Phlebotomy after the Pox come forth: but I find him cited by others as concurring

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Rhofes 18. Cont. 8. citan. te Diomed. Amico in ! riolis, c.x. Horat Augen. . de febr. l. x. C. 70

with Avicenna as to bleeding even at the nofe, as extreamly beneficial; and to approve of phlebotomy after they come forth, in case the Patient find no alleviation thereupon, but there continue signs of a plenitude, Cr redundancy of ill humours, a great Feaver and difficulty of breathing. But there is another piece entitract. de va- tled unto Rhases, wherein how indulgent he is to Phlebotomy you may learn from Augenius. "Rhases libro suo de peste, capite sexto: mittendum esse sanguinem vult pro quantitate plenitudinis; sienim maxima sueerit, non veritur vacuare usque ad animi deliquium: & e mediccris, mediocriter educit : si parva fuerit, paulum finguinem educit: verba ejus fic babent. Tu pe= 'nam incidito, & quam multum sanguinis ef-'fundito: scil. ad languinis defectionem usque. Supravero syndromen attulit maxima plenitudinis, & e pancis interpositis inquit. Cum vero hac signa ad= 'modum evidentia non erunt, veruntamen be= 'hementia quidem, parum sanguinis fundito: 'Sin minime, minimum : hac ille. How successful so large bleeding may be (though Augenius, and Botallu de ve. Ranchinus and others condemn it, we may judge by the practile of Botallus. To these I add the authority of Serapion, which runs thus. 66 Si bec febris fuerit Seropion (in. s propter causam variolarum, & virtus & etas consentit, 'iune non aliquid magis juvativum quam phle= botomia venæ. Et si aliquid probibet phlebotomiam, stune oportet ut administrentur ventosa. Out of which it is evident, that the generality of the Arabians, were of a different sentiment from what Doctor Whitaker ascribes unto them: and Claudinus is less mistaken when he (as do many others) avoweth, that The 1. C. Cloudina Arabians universally agree to let Blod in the nal 1,5-sect 1. Small Por, upon occasion. Nor is there more of 6.1. p.286. truth in that which follows in our Doctor, viz. that Their followers have not determined this doubt. For though two or three may seem retraitory still in

næ fectione, C. 5ter script.de febr. c. 12.

the World, yet it is not amongst Physicians, but amongst them that are not Physicians that the Doubt is indetermined. I shall take some pains to undeceive this Age as to the present point.

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Gordonius's words are thefe; co Inprimis fi corpus e est Plethoricum, aut si Sanguis dominatur, aut virtus est lilium Medic fortis, fiat Phlebotomia de mediana, & postea de sum-cina, part. I. mitate nasi: 1. e. In the first place, if the body be ple. c. 12. de vathoric, or if the Disease be such as is attended with abundance of blood, or if the Patient be strong, let him bleed first in the middle vein, and afterwards at the Nose.

Petrus Bayrus having repeated the figns of the Small Pox, when they are violent, adds: " His apparenti- Peria Barran bus statim fac Phlebotomiam copiosam, prius scilicet de pestin caquam variolæ ad extra appareant: licet possit fieri eti- pite de varioam ipsis incipientibus apparere, stante multarepletione ; line onon tamen tunc fiat ita copiosa, sicutipsis non apparentibus: dicente Avicenna, in casu, Extrahatur san= guis quantitate que exiret, hoc est ninozet: i. e. when the small Pox begin with fuch a vehemence of symptomes, presently take from the Patient a large quantity of Blood, before the small Pox begin to come forth: yet may he also be let blood after they begin to appear, if there be a great repletion, but yet not in lo large a manner as otherwise: for so Avicenna directs in the case: and let the Patient bleed in such a quantity as may drythe habit of his body: that is, you may leffen the quantity of the morbifick matter, so to bring them forth to a kind maturation, but not lo as to divert Nature from her work.

I shall not trouble my self to repeat the words of others at large; but refer my Reader to the places ci- Hor, Augen, de ted. Horatius Augenius, one of our best Writers ap- febr. 1.x, c.9. on the small Pox, (and who protelts he writes nothing in order to its Cure, but what fix and forty years

4d.ibid.c.3.

Experience had convinced him of to be good ) doth allow, in difficult cases, and when the Disease is somewhat pestilential, that the Patient bleed first at the Arm. and then at the Nose, by irritating it with Tarrow, or Horse tayl.

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I. C.Claudins Empir. rati-Dilette Lufip.145. **Epiphanisu** Ferdinandus caf Medic-78. Amil. Campol. de variolis, Christo. a Vega de arte med. Lud. Mercatus de puer. Vide etiam Ludo. Mercat. de icbr.1.7.c 3 & de recto Medicinal. prælid.ufu. 1. I. 6.4. &

Anton. Ponce

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With him agrees the cautilous and learned Praction. 1.5. sect. r. tioner Juleus Casar Claudinus: who doth debate, and determine this doubt : as also doth Dilectus Lustanus. in his Treatise of Venæ-sectione: and Epiphanius Fernæ sectione, dinandus, and Emilius Campolongus. Neither is it to exi. Artici. be questioned, but that this is the common practife of all Italy; so that I shall eite no more of that Na-

In spain 'tis approved of by Christophorus a Vega, whose words are these. " Si vero latte fuerint variola, & ab humore fiant crassiore, ab initio sanguinems L2.seft.7.c.1: mittere, si febris adfuerit; sine ipsa vero minime. And the best of Whiters, Ludovicus Mercatus is morble 2.c.22 thus peremptory in his Resolution. " De sanguinis detractione nullus usquam dubitavit, aut id fine ratione fecit, nife aut vires fint adeo dejecta, quod neque minimam, citra majus damnum ferre possint, aut affectus adeo levis, aut benignus existat, quod satius sit natura commistere, quam ipsam infirmare sanguine misso, vel · sanguinis copia adeo parva, quod exquisitiori victus in. flitutione securins rem possis agere quam aliis præsidiis. Santacruz de que licet aliquo modo possint convenire, non subinde · sunt ita secura & certa, quod eis prorsus fidendum sit. i.e. Concerning Blood-letting no man ever did doubt thereof, or if he did, he did it without any reason, except the Patient were so weak that he could not endure it without greater hazards, or that the disease were so mild and benigo, that it seemed better to leave all to the strength of Nature, without debilitating any way the fick person, or the redundance of blood and pecgant humours so inconsiderable, that the Cure might be wrought

wrought by a diligent attendance and well-ordered diet, without employing any of those Remedies which how convenient or fafe loever, yet (according to that fate which disposeth of all humane affairs) may sometimes have an evil issue, and are not therefore needlessy to be presumed upon.

In Portugal I find Rodericus a Fonseca to approve of Roderica Fon-Phlebotomy in this disease: As also Stephanus Roderi- Secain appen. cus Castrensis avoweth its utility upon his own Expe- febr. c. 54. &

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I might add others, but that this is the general practife Steph. Roderic. of spain, is so indisputable, that I should but abuse the castrens. Que patience of my Reader.

ad Jacchin, de Conf. Medic. ex quibus 1 2.

I now come to Germany, and Denmark, where the most learned, and the most eminent Physicians that we hear of, have admitted of this Remedy. The beneficialness thereof was experimented by that famed Practitioner, Forrestus. " Solet enim mirifice prodeste Forrestun obs. 'in hoc affectu hoc auxilii genus, modo tamen lib.6. obs. 47. fat in pzincipio, antequam mozbilli aut vari= in Scholio: &ibid. obf. olæ egrediantur. i. e. It is usually of marvellous 46,49. benefit to the Patient, if he bleed before the Small Pox or Measils do come forth: Whereupon he did ordinarily begin his Cures therewith, and faith, that undent= ably it ought to be so, if all requisite circumstances concurre. Felix Platerus (a man of principal esteem in Switzerland, and Germany) recommends it to our practise, " Sanguinis detractio per vena sectionem in Felix Platerm brachio facta ab initio, si Synochi hæ sunt febres, cu variolar.inter inscunque generis, ad sanguinis accensi, vel simul putri- opera, p.200. di, vel maligni etiam portionem educendam, causamque 's sic minuendam, in adultis plurimnm competet. & infantibus majoribus, cum in minoribus natu non liceat, non inutiliter administraretur. Quæ tamen, si c jam maculæ & pustulæ eruperint, ne naturæ motus impediatur, omittenda erit. i. e. Bleeding in the Arm,

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when it is practifed in the beginning, if the Feaver be any kind of synochus, ariting from the inflammation of the mass of blood, or its being putresied, or vitiated by any malignity, will be of great benefit to those that are of Age, to lessen the morbific matter, and abate the violence of the cause of the distemper. It might also be done to Children of some bigness (not to little ones) may be profitably. But if the Pox becoming forth it is to be forborn, least it cause them to retire in. Neither is it a common Elogy for this practife, that Gregorius Horstius commends, and justifies it.

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Greg. Horfiss oper, medic. t. 2.11.6. in apriolis: & ibid. de febr. l. 1. Que ult. epiff.x. Sennert. de

And his learned Son, Jo. Daniel Horstins afferts the pend. de va- the judgment of his Father. As cautelous as Sennertus would feem, he only doubts concerning Phlebotomy in Children, not in others. Gi sitamen in atate, qua 1.Dan.Horstim c venæ sectionem perferre possit, sanguinis abundantia ve-'næ sectionem postulet, mox in principio ante quartum febrilo 4, c.xii. c diem, aut sane prius quam variola erumpant; dum vires , adhuc constant, & sanguinis tanta copia ad ambitum corporis confluxit, vena aperienda, ut natura oneris parte c levata, quodreliquum est facilius vincere possit. Post e quartum autem diem, & ubi maculæ erumpere incipiunt, abstinendum a venæ sectione; inprimis sijam æger 'melius habere incipiat, ne materia ad ambitum corporis tendens ad interiora revocetur. i. e. But if the Age of the Patient be such as to be able to endure Phlebotomy, and the redundance of blood be such as to make that Remedy necessary, a Usin mult be opened before the fourth day, and whilest yet the Small Pox are not come forth, the strength not being yet impaired, and the bloud so immoderately discharging it self upon the exteriour parts of the body: that hereby Nature being disburthened of a part of what molested her, may the more easily concoct and subdue the rest. But after the fourth day, and when they begin to come forth, Phlebotomy is not to be used, especially if the Patient seem alleviated, least thereupon the matter be drawn back. ion

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back which was haftening unto and fixed in the habit Baldaffor Tiof the body. To these may be added Baldoffer Ti- main cos. maus, Physicianto the Elector of Brandenburgh, who medicin. 1.8. after thirty fix years of practife approved this course: C. 29. Lotiand 7. Petrus Lotichus: as also the younger Sebizius, chim lib. 1. now Professour at Jena; and J. Christianus Fromma- obs. medic. c.7 nus, a Physician in Saxony: and Franciscus Joel: In D Sebizius Denmark I find Bartholinus to be refolute for it, be- disp. de varifore the Small Pox do come out: and if they do not olis ult. qu.4. come forth kindly, but that symptomes of an evil pre- man. discurs. sage multiply upon the Patient, he allows a minute medic, sed.97 bleeding then, and fayes many have been happily Fr. loel oract. recovered by these means. And so much for Ger- 1.9, sect. 5. \$ 2

In England the paucity of our Writers upon this Hoeserss Hersubject gives me no opportunity to desend Doctor Wil- cul.medic.l.7. lis by the citation of any Book: 'tis enough, that since 5. Hefenreffer the original and first records of the Disease no other de morb, cut. Method than what he pursues, hath been commonly 1,2,c.4. proposed: that the generality of the world, the wifest of Phylicians, the most able and judicious of our 1920= fessozg principled by Avicenna ) do approve thereof: 'tis not bare complyance with the Hode of France, but the Dictates of Reason, confirmed by a prosperous success in several to my knowledge: I would fain see any man justifie the Rhodomontade of Doctor Whitaker, by producing ten Phy sicians that reject Phlebotomy: I remember none but Fracastorius, Langius, Rolfinckius. and Densingius, and one or two more, and a company of old Wives and Nurses. I never yet Phlebotomised any ; yet'twas because I either had no exigency for it, or the Patients were too timorous to admit of it. But were my own life concerned, I would undergo it: and I hope the Baconical Philosophers have not so irrecoves rably infatuated this Nation, but that We may come to be.

Th. Bartholin. Gista Medica, in a constitution of the apple of the Alfo

be undeceived in this point, as well as we have been in others.

Although it be not my intention to write an intire Trast about the Small Pox, yet that I may demonstrate the Rationableness of their procedure who do let blood in the Small Pox, 'tis necessary that I acquaint my Reader with those cases wherein they do apprehend themselves obliged to ast as they do.

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In the cure of the Small Pox, when soever a Physician employes his thoughts about Phlebotomy, he confiders the Feaver which attends it; and the dangers into which the Patient is likely to fall: and the Brength he hath to bear them: not to mention those considerations which arise from the general season of the year. or the particular malignity of the Disease at that time or the idiosyncras, or peculiar temperament of the sick, or what is singular to some families. In the small Pox there happen frequently three forts of Feavers: one in the beginning, which usually terminates on the fourth day, or when they come forth: Another which begins when the small Pox begin to come to Suppurate: according to that old saying, Febris fecit variolas, & variola febrem. And a third, which either ariseth afresh upon their coming forth, or is the continuance of the primary Feaver, which if it abate not upon their eruption, creates new cares and troubles in the Physician.

As to the Feaver which is antecedent to the small Pox: though fometimes there be none at all: and fometimes it be so gentle as not to create any mis-apprebensions in the Dostor, or Sick; yet frequently it happens to be joyned with putridity, or malignity, or to have something of the Pess it self: From all these circumstances

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cumstances the cure must be varied; nor is it any disparagement for a Physician to act one thing at one time which he doth not at another; and to recede from vulgar Methods in extraordinary cases. In some cases he need not phlebotomise, if he see no violent Feaver, no pernicious or dangerous symptomes; if it be either a Tertian, or double Tertian, or Synochos simplex: the danger seems less : yet is it a certain observation, that oftentimes in the Small Pox, the most hopeful beginnings are deseated by sudden and subsequent acdidents: so that very many of those whose recovery hath been undoubted at first, have in the progress and conclusion of the Disease died. " Hoc primum sciat & consideret, Lud. Mercatm præ oculis semper babeat prudens & diligens Medicus, bis, 1.2.c.22. e nimium sidendum non esse plurimum in variolis & e morbillis, quantumvis salutaria signa primo accessu aps pareant: nam in recessu & inclinatione facillime in mortem commutantur : talis est horum morborum fraudulentia & conditio. Besides this, it often happens that a Salubrious and simple Synochus turns to one that is putrid: and then the danger is, least what is intended by Nature for a depuration of the Blood, become corruptive, and ends in the death of the Patient. Also it is frequently seen that the exorbitant matter is so much, or Nature so weak as not to discharge it into the habit of the body, or there is some particular imbecillity in the principal parts, that the Disease seizeth on the Lungs so violently as to exulcerate them in the progress of the Disease, or so debilitates them that the Patient languisheth in a Consumption; or else it settles in the Glandules of the Throat, and the Patient dyes of a kind of Squinancy, according to Avicenna. " Nam qui ex Diom, Amicum e variolis moriuntur, inquit Avicenna, plerumque ex an- tr.de vario. e gina suffocati pereunt, orta minium inflammatione in lis, c. 8. gutture. Sometimes the matter taketh a wrong course, so as that a Flux ensues, which sometimes becometh bloody: and this befals the Patient either be-

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fore they come out, or adittle after they have appeared: eninthe declination: in all which cases, 'cis a bad sign? but in the list, commonly mortal. " si debet Mor. Augen. de buju modi res experientiæ judicio terminari, bæc fisebr.l.x.c.3. dem faciet, fluore in declinatione adveniente, etiamsi non sit exilterations, majorem agrotorum partem mori. Sometimes the matter is so acrimonious, that it corrodes the bones, as Paraus testifies upon his knowledge. " Duinetiam animadvertere licet in plerisque bujus Chieurg. 1.9. e morbi malignitate mortuis & diffectis, eum in principibus partibus invehi corruptionis impressionem, que bydropis, phthiseos, ranvicitatis, asthmatis, dyfenteria. ulceratis intestinis, act and em mortis consecutionem attulerit: prout pustula pari rabie debacchata sunt, qua c per corporis superficiem surere cernuntur: non enim externas modo partes deturpant, pultularum & ulcerum altius sese in carnem defigentium impressionibus & cicatricibus relictis, sed & sape movendi facultatem adimunt, arrofis & labefactatis cubiti, carpi, genu & pedum dearticulationibus. Quinetiam multi inde videndi sensum amiserunt, ut nobilis Do. Guymeneus; alii audiendi, alii olfaciendi, oborta hyperjarcosi in meatu ' tum narium, tum aurium. There being so great dan-

ger in this Malady, I wonder that Doctor Whitaker should ever look upon it as contemptible: saying, co This disease of the Small Por was anciently and e generally in the common place of Detit and Ducrile diseases; and the Cure of no moment. It is true that Physicians doulually reckon it amongst the Diseases incident to Children : and they do believe that Children pass it over with less danger than more adult persons: because in them the Humors are not so accrimonious as in others: their habit of body is more lax, and gives the humors a freer course through the flesh, their

ikin is more perspirable, and their innate heat more vi-

gourous than in others: It is also true, that they do

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there is little or nothing to be done by the Phylician: But 'tis no less true, that from the dayes of Avicenna and Rhases unto ours, none ever thought or writ, that the Eure was absolutely of no moment. For Avicenna Avicenna de febr. c. 6. in his Treatise of the Small Pox represents unto us a great deal of danger in the Disease; and though he grant it is sometimes facile; yet he cautions the Reader sufficiently how malignant, perillous and mortalit is at other times. Horatius Augenius and others aver, Hor. Augenius that this Ebulition is sometimes such as tends to the desebr. 1, 9. depuration and perfecting of the blood; and sometimes c' 4,6, to its depravation and putrefaction: And as they compare the one to the ebullition of Must, by which it is improved unto good Wine, so they compare the other to those effervescencies in Wine when it frets, and degenerates. Neither is Doctor Sydenbam less mistaken. when he forbids the Physician to make use of any generous Medicaments, but to leave the whole work to Nature, and to proceed according to that Regimen which he suggests; he representing the disease as facile in it Telf, and only mortal or dangerous by the errors of the Nurse, or Physician: Whereas it is evident that the Small Por are at some times accompanied with greater danger and worse Feavers than at other times: and all that difference which is to be feen in the Pox, that they are green, or livid; flat, or high; horny, or more soft; few, or so numerous as to over-run the whole entrails, as well as skin, and there to run one into another, and flux; this doth not arise alwayes from the miscarriage of the Attendants, but from the malignity and quantity of the morbifick matter; as observation and common reason will inform any man.

Let us therefore judge better of those sage Practitioners, who proposed unto themselves sundry scopes in the cure of this disease: and thought it their nau= Dence to prevent all the dangers im minent or prejent,

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First, They examine the babit of the Patients body, if it abound with blood, or evil humours: the redundancy of the former they conceive may be such, that upon a violent ebullition Nature may not be able to rule it, but either fome vessels may break, or the Patient be strangled by a decumbiture of the blood upon the Lungs, or Brain, or a bloody flux ensue, if it take its course that way; or a bloody urine, if it incline to the Kidneys. The renundancy of evil humors they do apprehend to carry this hazard in it, that it may pervert the whole mass of blood upon the febrile effervessence, and add fuch a maliguity to the morbifick matter in its expulsion, that the evacuation thereof by pustules may not put a period unto that Feaver! but continue or exas. perate it, to the mortal danger of the Patient: such evils they think may easily be prevented by a due method in the beginning; but in the progress of the Difease, they are either remediles, or not to be cured but with much difficulty. Therefore their first intention is to lessen that plenitude of Blod, and other Humors, which they and in the Patient.

Secondly, They examine the Nature of the distemper, what the Feaver is, whether a simple Synothus, or one that is puttin; a causos, or continued tertian: They consider the violent symptomes what faculties they effect, or what parts: and according as they see occasion they apply themselves to correct its malignity, or to moderate its fervour; without indeavouring to extinguish the Feaver.

Fuerint ulcera maligna in faucibus, in asperaarteriz, in Esphago, in intestinis sepenneero, que hominem non multo negotio de medio toltunt. Hor. Augen. de sebr. l. x. c. 2.

Thirdly, They consider the danger that the Eyes, Throat, Lungs, Stomach, and Intestines are in, should the Small pox affect them: they know that if they be driven forth into the habit of the body, and those other parts kept inviolate, there is little of danger danger: but on the contrary, if the humors discharge themselves on them, now all other fears vanished, yet upon the suppuration ( which brings a new Feaver ) horrible symytomes must ensue in the Stomach, Bowels and Lungs. And therefore they think it ought to be their care to mitifie the humors, and fortifie those Darts.

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Fourthly, They consider the manner of their eruption; and if they come out kindly, they intermeddle not: If they either come out flowly, and in the mean time create Epileptick and convulsive fits, or other dangerous symptomes, they promote their coming out: and according as they perceive by their colour, and other figns, that they are malignant, they apply themselves to amend those defaults: If they find Nature to exorbitate in their expulsion, and that they come out so thick that there is not sufficient room for them, but that they run one into another: If the Feaver continue, or increase, because that destroyes the due suppuration of the pustules, they apply themselves to moderate the excessivenes of that evacuation, and to correct that Feaver, which is not to be terminated by any new excretion of that kind, but to be cured in a manner as other putrid Feavers are: and in this case all judicious men must allow no greater regard to the Small Pox, than a Symptomatical evacuation deserves.

Fifthly, They imploy their care in fecuring such parts as are particularly indangered by their eruption; expedite the maturation of them, if it be to flow, and difficult; hinder their regress, and suffer not any recrementitions particles again to reincorporate with the blood, and beget a new Feaver, or other dangerous symptome: and in case any new distemper happen (as sometimes a Pleurisie, or the like may do ) they provide for the due cure thereof.

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These are the common intendments of all rational Physicians: these things Doctor Willis ( whose short discourse of this disease contains in a manner all that our best Writers do suggest) doth propose to himself: and whosoever doth ponder well the course of the disease must assent thereunto. Let the Motion be critical; all intelligent men know, that before the Criss, if we perceive any threatning danger, that Nature cannot command the exorbitating hamors, but that the present symptomes are perillous, and the future issue uncertain: If the Crisis be immoderate, and not agreeable to our desires; If it bring no alleviation to the Patient, our hands are not bound up, nor are we prohibited to intermeddle even by generous Remedies: As little are we confined by the Hypothesis of Doctor Sydenham: for, if Nature be inclined to change the state of the blood, yet are we obliged to assist her, if she be too weak, and deficient, or exorbitant: and our providence hath the same liberty to exert it self, that any other principles indulge it in.

I come now to those Means by which Physicians principally are said to act: and those are the great Remedies, of vomiting, gentle purges, and bleeding; and to declare the usefulness thereof; 'tis necessary that we consider the Small Pox under a twofold notion. As the feaver precedes; and as those Pushules do accompany it: I think those Physicians to have written most discreetly, who divide Feavers into two sorts: viz, febres solitatiae, and febres comitatae; these last they distinguish from symptomatical Feavers in that those do succeed others and depend upon them as their Causes: but these others do precede some other distemper, or arise with it, and are either a cause or occasion thereof: and upon the appearance of their companion-disease they cease or abate: such are Squinan-

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cies, Peripnenmonies, Pleuristes, the Small Pax, &c. cc Comitatæ febres continuæ sunt, quæ aliquem mor- F. Platerm bum qui ipsas vel exitavit, vel qui ab illis prodiit, comi de febr. gene. e tem habent, aliaque præterea que febris solitaria af- sibus. fert symptomata, a morbo comite prodeuntia, & cum febrium accidentibus complicata, febriumque naturam caliquando permutantia. In this distinction we are freed from those impertinencies which others molest us with, as if the concomitant disease were a crisis of the other: whereas indeed this concomitancy makes us look on them rather as a complication of maladies, than any such succession as is feigned; and we are thence obliged to consider what indications arise from this conjunction: for it is confessed that in these cases the primary disease is not terminated, nor altogether to be cured in the usual manner, but with a regard to its associate: but our care ought to spend it self so as that the primary feaver may innocently and without prejudice to the fick introduce its Associate, and that conclude with an happy recovery. To do this we consider the nature of the primary Feaver: which is in the Small Por a simple synochus, or a synochus putride; and sometimes a Tertian, or double Tertian, or some malignant Feaver. These we are so to manage that they neither become exorbitant, so as to destroy the Patient besore the Associate discovers it self, nor then become so depraved, violent, or malignant, as to disturb the subsequent cure: No man can in reason doubt but the best and most direct means to moderate the Hippocris-22. primary Feaver is to begin betimes; for then the distemper is less violent, and Nature least debilitated : What we are to do then the course of the Disease best teachethus; in which the most enormous vomitings are so far from doing burt, that they are beneficial to the sick: It is therefore manifest that a Physician, who is to imitate Nature, may in the beginning (as he sees occalion.

cassion, and upon due pondering of all circumstances administer a vomit : for, it is neither repugnant but congruous to any of those primary Feavers; nor contraindicated by the Associate: For hereby those excrementitious humours are evacuated, which would otherwife in the progress of the disease add to the distemper producing Phrensies, Sopors, or other malignant symptomes; also part of the super-abundant turgent matter is exhausted, and the Lungs (who are frequently endangered by a Gatarrh in the beginning ) are difburthened: as also the eruption of the Small Pose is facilitated: Vomits being alwayes held by the Methe dists amongst those Medicaments which principally relax the habit of the body. In case that there appear urgent Reasons against a Vomit: the next thing under consideration, is a Minorative purge, whereby the Stomach and Intestines being cleansed, and part of the Morbifick matter discharged from the Head, Lungs, and maß of Blood, Nature will be better able to overcome and regulate what remains. And herein the Physician is guided by Nature, which oftentimes alleviates the Patient by a flight Diarrhaa before the Small Pox do come forth: Nor is there any danger in dinandus cal. such fluxes, as our Practitioners observe: si Diarrhaa fuerit in principio non nocebit. And most of them allow a gentle befitting purge in the beginning of this Disease, not doubting thereby but to make the subsequent course of it to be more benign, and safe; for the most turgent urgent bilious and accrimonious humors being carried off together with the promiscuous faculencies of the Intestines; 'tis not easie to be imagined that any dangerous malignity can relide in the pustules, or any dysentery or flux ensue in the state or declination of the Disease; at what time it is extreamly perillows. I shall not inlarge upon this subject further (it not being my present intention) but refer

T. Bartholinas de augin. Epidem exsicit.4.p.56.

Epiphan. Fermedic. 73.

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my Reader, for his more particular instruction, to Horatius Augenius, Ranchinus, Gregorius Horstius, Sennertus and Riverius: and if he desire Experiments for the happy use of Vomits, and Purges, and evidencethat they do not retract the humors from the circumference to the center ( Alas! 'tis not the time of their separa- Angel. Sala tion or motion that way!) or impede their eruption, let zoart. c.viii. him consult Angelus Sala, and Forrestus.

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I come now to the practife of Phlebotomy, about which sundry Questions arise: As, Whether it may be 'administred in the beginng of the Disease? and After the Pox come forth? In the State? and Declination? In all which times I do affert that there may happen fuch circumstances as may make it necessary: But in the beginning I think it may frequently be done with great convenience.

In the beginning of this Disease: that which urgeth is the Feaver and its symptomes, which if it be so violent that the Patient may be indangered before the small Pox do come forth, or so debilitated that Nature may not be able to command them and concoct them by reason of their multitude or virulency (which the extremity of the Feaver, as well as habitual cacochymy, or the adventitious malignity may create) 'tis prudence in the beginning to prevent those pe= rils, which in a stort space will become remedi= If the body be Plethorical with either fort of plenitude, 'tis indubitably requisite to bleed: and our Greg. Horslim case here is like to those cases which possess the Brem- de variolis &: ers, or Vintners, who whilest they attend diligently to morb. the deparation and fermentation of their liquors: employ a part of their thoughts upon the preservation of the cask, least it break.

Nor is the present plenitude only to be considered, but the future, which will happen upon the increase of

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the ebullition and attenuation of the blood, together with the defective transpiration, which alwayes abates proportionably to the greatness of the Feaver: and in case any peril threaten from the violence of the Feaver, there doth not appear any more ready course (in fuch as are outers, or in the beginning are at their height, perhaps there is no other) then to let blood; whereby the redundancy is diminished, the course of the blood diverted from circulating or stagnating in the inward vessels, the habit and texture of the body changed in order to the more facile expulsion of the Small Pox, and transpiration promoted, then which nothing contributes more to the alleviation of the first, and precaution of any subsequent Feaver, and malignant putrefaction of the Humors in the Pustules. . " Quoties cunque enim corpus ventilaturi & nullo modo transpiractio prohibetur, facile putridæ fuligines per poros exbalantur nec cordi communicantur, neque proin seguiturulla febris: unica enim causa legitima & immediasta febris est, probibita transpiratio ; uti etiam illis e qui a limine salutarunt Medicinam, notum est. i. e. Whensoever the blood is well ventilated, and insensible transpiration free, whatever noxious and venenate vapours are contained in the body, which might otherwise fly up to the head, and cause incurable Phrensies, deadly Sopors, and Epileptick fits; or create Lipothymies in the Heart, or difficulty of breathing ( which is a mortal sign in this Dilease ) in the Lungs, or a Diarrhea and Dysentery in the Intestines, or a virulency in the suppurating Pustules, and corrode even the bones and ligamenis; these vapours exhale by the opened dores, and the Feaver abates: for any one that knows never so little in Physick, understands that the sole le= aitimate and immediate cause of feavers is prohibited transpiration: From what hath been faid it is evident, that of all Remedies 19 blebotomy is the most important in the Small Pox, in the first begin-

Tofephde Medicin apud Gr. Horft. ning, whether the Feaver be a simple Synochus, or one that is putrid and malignant: and 'tis more a wonder that any man should oppose the due administration of it, then that all Europe in a manner should agree to the pra-

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Neither is it only to be administred to allay the plenitude (which generall occurs in this Malady) or to prevent the evils forementioned; but frequently for rebullion, when the malignant matter begins to affect the Brain, Stomach, Lungs, Intestines: For if during the Feaver the Humors seise upon those parts with any violence, the Patient is in apparent danger of death, there being no way to prevent the suppuration there; and little hopes that the Patient will survive the distemper, or (if he do) escape a Consumption or Dropsie afterwards. " Sunt alie ita maligne, ut non folum carnosum genus adoriantur, sed ossa quoque dila-dinand. cas. e nient, & corrumpant, & quandoque interna membra medic. 78. c principalia, ut by dropem generent, & nuper observavic mus puellulum quendam D. Donati Profili nepotem mortuum ex hydrope ob variolas, & morbillos: quandoque e vidimus alios consumptos ex asthmate, obeas dem varioclas: quandoque vidimus alios diarrhæa & dysenteria confectos ex morbillis & variolis, & alios gangrenatos " & esthiomenatos. It is true that Physicians do not alwayes regard the distempers of the brain in this disease. because albeit they may be very violent in the beginning yet they afterwards cease of themselves: nor do they appear so highly concerned for the animal, as vitalfunctions: and in such cales great judgment is required in a Practitioner rightly to diltinguish betwixt what may affright others, and what ought to terrifie him: But in case the first approach be accompanied siest bona yox, & bona with a violent Cough, hoarseness, difficulty of breathing, respiratio, the beginnings of Squinancy from a pustulary defluxion speech intuinto the Glandules of the Throat, or with swoonings, and conna. Epiph. perfrigerations of the hand and feet; He that thinks Ferdinand case Phlebotomy n.edic. 78.

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Phlebotomy ought not to be administred (if other conditions permit ) understands not himself, or complies too much with the prejudicate opinions of the Patient and Relations. The Authority of all Phylicians almost justifies him: the Rules of Art direct him to it: the prosperous success which frequently follows thereon imbolden him to it:and Nature her self authenticates the practise by her sovereign example: for it is usual for Patients in the beginning of the Small Pox to bleed at the nose: I have known five or six in one family (adult persons) that bled of themselves eighteen ortwenty ounces, with greater benefit : whilest I durst not be allowed to take away eight. 66 Novimus plures infantes in principio quibus sanguis in copia exe naribus exivit, & bene habuerunt, neque tot tantisque e variolis & morbillis fuerunt afflici unde multi autumarunt, si puero multa sanguinis copia sponte vel arte exieret, usque ad animi deliquium, quad vel non variolabitur, vel non in tanta copia: nam variole & morbilli e vere sunt morbi a sanguine. With this Author a-Hor. Augenius grees the most experient Augenius, " Saluberrimum e esse provocare sanguinem exparibus docuit experientia: de febr. l. x. am quibus sponte effluxit, variole pauciores & salubriores evenerunt. Vidi hactenus pueros duos, qui ex c fluore sanguinis e nare dextra tertio die immunes a febre evaserunt, & quarto die supervenerunt variole pança & benigniffima. I add the words of Diomedes Amicus, who having recommended the applying of Leeches, Yarrow, or Horse-tail to the Nose, thereby to Diom Amicus cause a flux of blood, prooceeds: " Hæc enim sangninis evacuatio a naribus, vel sponte, vel arte facta adeo confert, maxime cum adfint signa fluxum sanguienis portendentia, (cum tamen non fluat) ut solo fluxu ifto agrotantes istos sanatos vidisse Rhases dicat; & eum solum praservare a nocumento oculos & alias faciei partes dixerit Avicenna: que sanguinis evacuatio ex naribus semper medicum excusat ab omni alia eva-

Epiphon. Ferdinand. caf. med.c. 78.

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cwatione: sicuti facit etiam que per uterum, vel bemorrhoidus fit, modo fint cum alleviatione. The consideration of this so beneficial an effort of Nature made Augenius and others to direct that after Phlebotomy in the Arm; the Patient should be forced to bleed at the right Nostril (in relation to the Liver ) or at both: and in the cure of Antonio Borghese, a Nephew of Pope Panlus V. a Colledge of Physicians at Rome did Philander Coprescribe Leeches to be applyed to his Nostrils, and his dic. Marsil. recovery was principally ascribed thereunto.

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I shall not undertake to prescribe how much blood may betaken away at once a nor how often Phlebotomy is to be repeated in the beginning of the disease: I should expatiate too much by such a discourse; the general Rules are to be found in Augenius, Mercatus, Horstius, Ranchinus, Epiphanius Ferdinandus, &c. and the accommodation thereof to particular cases doth depend wholly upon the judgment of the Physician employed; How Children (in whom the Disease, if they can be ordered ) is less dangerous commonly: and how Men according to their different babits of body, and other circumstances (it being more perillous in them, their fless being more solid and tenacious, their bodies less perspirable, and their blood and humors more acrimonious ) are to be ordered : When the Lancet, when Leeches, when Cupping glasses and Scarifications are to be made use of; the mise do know, and the ignorant may learn, if they will study to improve by fludy that time which they mil-spend in censuring the prudent actions of their betters.

Before I proceed to the second Question, it will be convenient to decide that Controversie about Phlebotomy, Whether it draw from the Circumference to the Center, and may hinder the erupti= on, or taule the Pullules to return in, or subside s

subside? That there are some eminent Physicians

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who do hold, that Phlebotomy doth draw the Humore from the Circumference to the Center, I do grant: and in the case of the small Pox, that it may chance to do so, is the suspicion and fear of Avicenna and Hollerius, as well as Doctor Whitaker. But why the Doctor should be scrupulous here, who hath so great a regard for the Ancients, (though he cite no good Anthors) is to me a Miracle: For besides the Methodists, who are more ancient than his Citations; the repute of Galen and Actius (whom Septalius entitles to the Opinion) ought not to have been supinely contemned: and the Authority of many of the Moderns (which a man that cites Fernelius ought not to slight) doth prove unto us that Phlebotomy doth promote transpiration, eject the peccant humors to the Circumference, and not revel them back: and this is the Opinion of the learned End. Septalius, Gregorius Horstius, Joseph de Medicis, Collado, pest. 1.5: c.17. Bot allus, and several others. I have said enough to decide this point in the preceding discourse about the natue and effects of Phlebotomy: Yet lince it seems in ron. de venæ this place peculiarly necessary to be again spoken unto, I thus argue thereunto. If it be true that 23100= letting doth draw the humors from the Circumference to the Center; how is it that Dippocrates, Salen and Goldo obsin all the Dogmatists do prescribe Phlebotomy in Pleuri-Holleris meth. firs, and Inflammations of the Liver, and Lungs? Is this the effect of that Revullion, that the Humors should flow more inward? and from the surface to the center? Is it upon this centiment that Physicians reiterate their Phlebotomies? or practife them at all in the Itch. Hipport. sect. 6 Leprosie, or Eryspelas? Doth not Dinnocrates caution us against the returning in of an Erysipelas? Yet is there no man that can rationally condemn bleeding in that Disease? How often do we read the happy effects of this usage in pestilential Diseases after the eruption Septal.de pest. of the Spots ( which Septalius tried upon himself;

Greg. Horstins Instit, Medic. disp. 18. co. sect. qu. 7. Joseph de Me dien apud Gr. Horft. t.2. Botolius de

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and Minadows upon an infinity of Patients ) and of to. Biprist. the Parotudes (of which Riverius boasteth) of the Minadoss de Carbuncles and Botches (the successfulness whereof con-mittendi verted the other Physicians to adhere unto Septalius, fang. c. 14. in opposition to the timorous Francastorius) and even prax. medie, of the Small Por, in which Avicenna alloweth of 1.17.c.i. it before their eruption, and sometimes after it? Consider the Authors, and the Cases related concerning the prosperous issue of Phlebotomy in the Small Por, and how speedily they have come forth thereupon; and see if it be possible to frame a ground for such sentiments, as Doctor Willtaker suggests: I will not here repeat the multitude of cases recorded by the French, Italian and Spanish Physicians; nor alledge the cases ont of Forrestus: but content my self with the single instance of beurnius. " Quin si dyspnea adfuerit cum ex-Heurnimin anthematibus, interdum ad Phlebotomian venimus. lib.2.aphor.15 • Ita nobilissima comitissa hymondana Francisca, Admie ralii filiæ, venam pertundi jussi, cum exanthematu non fatis prodirent, idque felici successi. Can we imagine that if the proper effect of Phlebotomy to draw in the humours, that it should so frequently, nay uni= hersally, produce so different an operation? or, is it not more rational to think that the proper effect thereof is to Draw from the Center; and that whenfover it happens otherwise, 'tis by accident only? Doth not Collado argue judiciously against the generality collado obs. in: of that Assertion : viz. All Phlebotomy Daweth Holler. mefrom the Tircumference to the Tenter; when he thod. c.93. reasons thus ?

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Whatsoever doth draw back the humours from the Circumference towards the Center, is nori= ous in the Small Por.

But some Phlebotomies are not burtful in the Small Por.

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Therefore some Phlebotomies do not retract the humors from the Surface to the Center of the Body.

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versatity of the Proposition aforesaid.

I hope I need not inculcate to those of the contrary tenet that old Rule in Logick:

## Syllogizari non est ex particulari.

Pag. 140. edit. 20

As for Doctor'sydenham, he grants that 'tis most falle for any to fay that Phlebotomy (and other evacuations) hinders the eruption of the Small Pox, by introducing a contrary motion to what Nature intends by the Circumference: Since that 'tis commonly feen to happen quite otherwise, they suddenly coming out thereupon: and therefore he suggests other Reasons, but of little validity. CPer basce evacuationes non tan-Ibid. p. 141. tum ebullitio nimis imminuitur, cujus interim ope partes despumandæ accurate secerni debuerunt: verum etiam 'illud iessum subducitur, quod capta secretioni quasi pabulum continenter suppeditaret; unde sepenumero conc tingit, ut variolæ primum laudabili impetu erumpentes Ceoque fortasse melius, quod evacuationes jam dicta præcesserant) paulo post ex improviso quasi repercussæ detumescunt, idque ob eam potissimum causam, quod e materia desit, que quasi a tergo præeuntem insequere-

cl. R.B.

seven hundred years is not worth a straw in compari-Ep. dedic. ad son thereof! Such is the Treatise of his, Qua etiamse neque mole ampla, neque spoliis Authorum (quozum cineresover me molliter cubent) bt sufferta, tamen non erit, uti spero, eo nomine tibi minus grata, quippe

tur, atque agmen clauderet. These are his most im-

portant and persuasive Reasons! so conformable to

his Observations, that he makes them the Basis in

a manner of his mattise! so powerful, that all that

the Phylicians have observed, said, and writ for above

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qui inter magna quid intersit & tumida non ignoras! I have wondered often that his Books should meet with any applauds: and with what confidence he could obtrude upon the World so irrational and absurd a piece; except it were to shew how judicious in framing of Hypothesis, and exact in their observations these Baconical Philosophers are. But, vot to disturb I would not the repose of Fr. Bacon, or Bungey (quorum ci- food to say neres per me molliter cubent) all that he proceeds on in the Doctoris. that Book about Feavers, amounts to this, that Nature a Conaffects a new state and disposition of the Blood; and so surer. produceth a Feaver. Febrilem sanguinis commotio- De seb., com e nem sæpe (ne dicam sæpius) non alio colliceare, quam tinuis. p.5. ut ipse sese in nouum quendam statum, & diathesin immutet. Well, for discourse sake, I will now allow him this : but I must remind him that he saith the same of the Small Por: How then comes it to pass that the Indications are not the same, where the supposition is the same, and the procedure of Nature the same, by Ebulition and Despumation? Before, he expressed himself thus ; 66 Ita mecum reputo, Indicatioe nes veras, & geminas quæ in hoc morbo consurgunt, in s eo versari, ut sanguinis commotio intra modum naturæ e proposito congruentem sistatur ; eanimium ratione, ut e nec hine plus æquo gliscat, unde perionlosa sympromata e insequi solent, nec illino nimium torpeat, quo pacto vel e materæ morbificæ protrusi impediretur, vel sanguinis o novum statum effect antis labefacturentur conatus. We were then allowed to intermeddle, as we saw occasion, and to assist Nature by Vomits, Purges, and repeated Phlebotomies, in case the Ebullition were so violent, as that it was incongruous for the affecting that change in the mass of blood; or on the contrary so defective, as not to be able to bring it about : But now, when the same thingsfall under our debate; the same Ebullition, attended with no less violence and danger (rather much more) and the like despumation is to be effected, how

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come the Indications to vary, and that our hands are tyed up from prescribing those Remedies, which a parity of Reason doth ligitimate? If it were not necessary, we were then obliged by our Dhserbatoz not to busie our selves: but amidst the asoresaid circumstances we might interpose our aid: and why not now? No Reply can be made but this extravigant and intolerable Affertion; that, In the Small Pox there never can happen any immoderate, or defective Ebullition naturally; but it must arise from the errour of the Physician, Patient, or Attendants. And all the proof. of this that I can find amounts to no more, than that some, or many have been recovered by doing nothing in the Small Pox; when Salubzious that oftentimes upon Phlebotomy, and other evacuations practifed in the beginning of the small Pox, though they have come forth well ( nay the better for the use thereof ) get in the progress of the disease, they have subsided, and returned in: those antecedent Remedies having either rendered the Ebullition too minute to finish the despumation, or having carried off part of that matter which should have brought up the rear, whereby the forlorn-hope, or vant-guard are disappointed behind. Most excellent! But may not I say on the other side, that fince we oftentimes fee that the Small Pox are preceded by a malignant, pestilential, or putrid Feaver (no defaults in any person being to be alledged in the case) and that many (sometimes most) do not recover: that in those difficulties we are exempted from his general Rule, and cannot without betraying our Patients and our own repute, omit those Remedies, and moderate the Ebullition, or correct it? Is it not so apparent that none, but such as prejudice hath rendered blind, and deaf, can deny it, that Nature frequently produceth an effusion of blood at the Nose

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(or menstrous) in this disease, to the benefit, at least not to the detriment of the infirm? Is it not most notorious in England, that oftentimes people are vomited, purged, and blooded, in the beginning, they not suspecting the malady, and yet none of these inconveniencies do ensue? Cannot the avowed practife of Italy, France, Spain, Africk, Egypt, High and Low Germany, and of many in our Nation, convince a man that these ill consequences do neither gene= rally nor necessarily follow upon the due administration of Phlebotomy? So that neither is the Ebullition rendered too minute (which may sometimes be almost insensible) nor doth the Van run away for want of a Rear-guard. If it be fo, as'tis undeniable, and our Bok-cases make it good, I conceive the Doctors Reasons to be as weak as any were ever alledged, and that whatsoever is the cause of those subsequent evils the artificial use of Phlebotomy cannot be the proper cause thereof: since nothing is more true, than that old Axiome, Idem, quatenus idem, semper facit idem. But

here those effects are frequently visible, where Phlebotomy is not used; and do not enfue, as frequently, where itis judiciously used: therefore those effects are not to be ascribed simply to the bleeding of the Patient. 'Tis an imbecillity of ratiocination to erect universal theorems upon a Sæpenumero, or what oftentimes happeneth; especially if that oftentimes be counterpoised by almost as many, or more Experiments of a contrary event. Besides, who in Physick vide Valles. ever found out such a Rule, as Orgency, or a Cura co-meth. med. atta did not absolve the Pratitioner from its obligation 1.4,c.2. at some times? And that is the present case. We do univerfally

Nuper, cum 1665 variolis decumberent filii filiæ. que, uni præ cæteris fanguine florido rubenti, libenter nonnihil fanguinis subtraxissem prius quam eruptio sieret: sed incerti eventus metu retractus optimum conu= LIUM intermiss, quod proficuum videbam : In mittendo enim sanguine non tam annos Medicus numerat, quam vires ægro. tantis æstimat, Celso præcunte. Negligentiam tamen meam vel metura fupy, plevit Natura optato fuccessu & selici variolarum eruptione. Quippe quotquot ex meis decubuerunt, plerisque delirantibus, eruptionem variolarum, hæ. morrhagia narium præcef. sita qua sublevata Natura promptius expulit variolas numero plures, sed nulla alia malignitate infestas. Bartholin medic. Dan. dile fert. 9. p. 428, 429.

Sed maxime notandum eft. exire abquando variolas, aut morbillos, ita placide cum febre, vel fine febre, ut error sit venam secare. Commoda regio est, mullum accidens urget, neque ex pullu, aut alio figno cog-nosci potest latitans malum. Quorsum sine ulla indicatione audet Medicus turbare crifin ? Auton. Ponce Santacruz. de imped. magn. auxil, 1.3. ¢.18.

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univerfally grant, and spain it felf will joyn with Doctor Sydenham, that in the Small Pox, when either there is no Feaver, or a mild and salubrious one, and that Nature without any dangerous symptomes doth expeditely and congruou by carry on the work; we ought not, or need not to Phlebotomise: But we do say, some exigencies may happen (without any intervening errour) in which that practife is legitimate, because then necessary. I know not how diligent our Observatour was, when he took notice of

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fuch as miscarried upon Phlebotomy: were the Physicians befitting Artists? did the Patient, and all Attendants faithfully discharge their duty? was there no Malignity superiour oftentimes to all Medicines; no individual circumstances, such as commonly frustrate a Cure under the most judicious Methods? I must be informed of this, before I can determine, as our Author intends. Oh! what a misery is much study! and how many scruples is this Doctor sydenham freed from. by suffering our best Writers to remain untouched. Sunconsulted have the electronic

But I need fay no more: and therefore proceed to the second Question.

The second Question is; Whether in the ACLO-99EIRT or increase of the Small Porit be lamful to let the Patient bleed? For the better understanding hereof, I think it requisite I explain what I mean by the Beginning, Augment, State, and Declination of the Small Por. I intend by the Beginning all that time which intervenes from the first illness, decumbiture, or Feaver, until the Small Pox do begin to appear; this space is uncertain; for commonly it exceeds not three, or four dayes: though I have known it to be much longer before they have Wilal carling appeared. Small

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though er have appeared. And Zacutus Lustanus shall confirm it to any Zacut, Lustone that doubts the truth of my Observations. tan. Medic. se variola in die septimo, octavo, undecimo, & duodeci princip. hill. omo; &, quod plus est, vigesimo sæpe apparere solent, e quando natura præ humorum onere pressa causam morbificum citius expellere non potuit. Diomedes Amicus Diomedes faith he had a Souldier at Millaine under cure, who Amicus de having had seven fits of an exquisite Tertian, in the various, c. 6. end of the last paroxysme, the Small Pox came forth, and he remained perfectly freed from any Feaver, till their suppuration occasioned one, which ended in an happy recovery. 'Tis true the Feaver preceding the small Pox may have its distinct times ( which fall also under the consideration of a Physician) and some- Horar. Augen. times the Small Pox are so gentle, that this distinction de sebr.l.g. cannot take place: But'tis not to my present purpose 6.18. to entreat hereof: I have sufficiently proved that Phlebotomy may be administred in the beginning: and the number of those that deny that, is very inconsiderable: but in the augment many are more timorous. By the Augment I mean all the time from their first sensible appearance until they swell up, imbody, and exchange their red colour for one more white: during which time commonly the Feaver ceaseth, or giveth little of trouble to the Patient: and this extends usually to the feventh, ninth, and sometimes the eleventh day: sometimes it happens that the Pox arise one under another, and then the Augment of the former becomes coincident with the fate of the lat-

It is not here to be debated, whether we may let blood in the Augment when it is gentle, and our prognostics happy: but in difficult cases: as if the Feaver be so far from any alleviation upon their appearance, that it increaseth, and the symptomes become more terrible: If the difficulty of breathing become greater, or continue violent : If the throat become very fore, and

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be accompanied with a difficulty of swallowing: If the first deliriums perfist, and there be danger of a Frenzy, or Convulsions: It the Cough be vehement: If swoonings or vomitings begin, or continue: If a loofenes, or bloody flux, or bloody urine enfue: If they come out interruptedly, and disappear after they have come forth: If they come forth of a dangerous colour, or be very hard and borny (as they call it) or interspersed with purple spots: It they come out in such multitudes, that Nature seems oppressed, and incapable of disburthening her self. or ruling them in order to due maturation: If apparent danger threaten the Eyes: In these (and other cases that are perilous) it is controverted, Whether me may let bloo? And Lam for the Affirmative; suppoling that either Phlebotomy hath not been adminic.Colf. Medic. ftred; or so diminutely, that there is still occasion for it\_ Multa in præcipiti periculo recte fiunt, alias omittenda: Hippocr. sect. I have already alledged the Authority of Avicenna and Rhases, and Bayrus, and the practise of Heurnius upon the Countess of Egmond: I add here, that 'tis appueror. 1.2 c. proved of by Valle fins, Mercatus, Paschalins, Fonseca, and the Physicians of Spain: by Horatius Hugenius, Cæsar Claudinus, Epiphanus Ferdinandus, Dilectus Lusitanus, and the vulgar practise of Italy: By Foseph de Medicis, Hoeferus, Bartholinus, and many other Phylicians in high and low Germany: and the happy practife Empir. Iratio- thereof frequently in this Nation, hath given some nall.5. sect. 1. credit thereunto. I mention not the French Physici-Epiphan. Fer. ans, because their Authority is excepted against in this dinand.hist.78. disease: though no Nation (excepting Spain) hath van de venz ever produced better Practitioners, or more judicious sect. c. xi. men than they are. It being manifest then that the Art. p. 145, number of Physicians which approve the due admidich apud nistration of Phlebotomy in the Augment of the Dis-Oreg Horst. 2 ease, and after that they begin to appear, is such as may Hoeferus 1. 7. justifie any prudent Man in the doing thereof; Let us Baribolin, eift, now examine with what success it hath been done. medic.p. 101. The

1.3.c 18. Vallesius in 2. aph 3, Ludovic. Mercat. de morb. 220. M. I. Paschal. meth. med. 1.2.c.x. H. Augen. de febr. 1 x.c.3. I.C. Claudin. C. I. p. 286. Iofeih de Me. fthe

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Done. The The Countels of Egmonds case I have already recited: Bartholinus avows the beneficialness thereof. ce gunt tamen qui erumpentibus variolis venam secent. Th. Baribolins. auando febris intenditur, anxietas, spirandi difficul- 601. sas, angina, pleuritis, lotium crassum, & rubrum, aliaque symptomata apparent, ut detrafta humorum portione reliqua facilius superentur. Certe si imperfecte prodeant exanthemata, natura laboranti juccurrendum, partim parca venæ apertione, si copia sanguinis oneret. anod multorum felix eventus comprobavit, partim sudoriferis, que, ubi malignitatis suspicio, tutius ad extrema corporis clinimant ichores. And Dilectus Lustanus professeth the neglect of it to be an errour : Qua in parte aliquorum Italorum Doctorum error & Dilea. Lustians c timor calumniandus venit, qui dum apparere vident va- elione cap xi criolus inviolabile servant praceptum nullo modo san- Art.1, p.146. e quinem evacuare; & in prasenti casu exceptio facienda erit, cum multa experientia viderimus in his quibus talis evacuatio fuit repugnata, & ante suppurationens e pueros suffocari, & in multa illarum quantitate etiam . Suppurata. Non enim potest natura tanta regere & vincere ulcuscula, & ideo suffocatur, indeque multoties · pulmonia & alia superveniunt accidentia. 'Tis needless to recite other cases: I proceed to the Reasons of the practife; which though they are easily deduced out of the foregoing Treatife, concerning the general effects and utility of Phlebotomy, yet may it not frem amiss to debate the controversie particularly in this

It is an Aphorisme of Hippocrates, that in the beginning of Diseases a Physician is to administer his principal Remedies: but in the state to supersede: Cum Hipportsective morbi incipiunt, siquid videbitur movendum, move: aph. 29. cum vero vigent, quietem agere melius eft. And the reason of that injunction is, because that in the beginning Nature is rather oppressed by the turgent and crude hur

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Ed. ibid. aphor. 30.

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mours, then as yet debilitated; the temperament of the body is not much vitiated, nor the mass of blood much depraved; nor the Disease highly prevalent. It being most certain, Circa initia & fines omnia sunt levissima: circa vigores autem vehementissima. which Aphorismes the word heainning is so used as to include the auament of the Disease: for he pasfeth immediately from the Beginning to the State. Hier. Thriver, of Diseases. Id nunc manifeste ex verbis Hippocratis constate qui principio nominato ad statum translivit. tanquam Augmentum sub principio continuerit. Clarius id cognosces, quia morbum in tria duntaxat tempora partitur. And from hence we learn, that the most seasonable time for Phlebotomy is within the time of the Beginning of the Small Por, yet so as it includes the Augment, and may then judiciously be practised, in case it have been omitted before, or that new emergencies urge us thereunto: for if we delay then toule it, 'twill be too late to administer it, when Nature is more spent, the Blood and Humors more corrupted and perhaps degenerated into a malignity; the disease with all its symptomes more violent. If then after the eruption of the Pustules the Feaver continue, or increase, with evil symptomes; 'cis most evident that we ought to proceed to Phlebotomy, not only to diminish the present plenitude of blood, and surcharge of peccant humors, to allay the vehemence of the present Feaver (by ventilating the blood) open obstructions, relax the texture of the body; but also to prevent future evils, which will after prove remediless. case the Feaver continually increase, 'tis indisputable that no proper maturation of the Pox can ensue: the violence thereof interturbing that work, and depraving the expulsed humors so as to destroy the habit of the body, instead of suppurating in the skin: and their eruption is in this case perfectly symptomatical, because they bring no alieviation with them, but add to the danger

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caule othe ragger danger so much as their maturation interferes with the proper cure of the putrid or malignant Feaver: If ever it be true that the expulsion of the Small Pox is a Critical motion, 'tis manifest that now they are to be looked on as judicatoria non judicantia, as efforts of Nature intending, but not being able to effect her easement; and consequently they portend either a tedious and perillons sickness, or death. Omnes excretiones male prosper Alpini sunt, que non sedant dolorem - & que non judi- de prælag. cant, difficile judicium reddunt, atque quæ lædunt in vita & morte; acutis morbis exitium pranunciant. And were there any danger of retracting the expulsed matter, as there is not (because neither doth Phlebotomy draw from the Circumference to the Center: nor is it an easie thing to draw back extravasated matter) yet would not the regard thereunto deterre us from this practife; because in reference to the maturation of the Pustules, the Feaver here assumes the nature of a Causa probibens, or an obstacle and impediment thereunto, which must first be removed. The case is hazardous; but 'tis now we must act with that prudence which obligeth us to attend unto what is most urgent; though we neglect not other considerations: Nor can any man in his wits doubt but that we ought to recurre unto Phlebotomy ( even more than once ) Cupping-glasses; and scarifications, except by declining an uncertain peril we will subject the Patient to one that is certain. Other remedy there is none: and what imports it, if the attempt be hazardous, fince the omission is likely to be more fatal? we know not, nay scarce fear that we shall indammage the fick by the remedy; we are assured to do it, if we forbear: seeing that each moment adds to his jeopardy, and so far incapacitates us toferve him, as it accelerates the state of the Difease; in which when the distemper is most violent, we are geherally obliged to supersede: or if we were not, yet would our care spend it self to no purpose; for in

fuch Small Pox there is not any declination, nor doth for Augen. de the Patient survive the State thereof. "Status aufebr. 1.9. c. 18. tem [variolarum lethalium] cum omnia in deterio.

tem [variolarum lethalium] cum omnia in deteriorem labuntur dispositionem: exulcerantur subdita
partes, pus educitur maxime fatidum, nigricans, viride; subjectum corpus plurimum contraxit ingredinis,
ita ut totum videatur igne ustulatum, virtus imbecilla,
febris interdum magna ratque tunc agrotus moritur.

Neither is this the only case in which a Physician ought to maftise Phlebotomy 3 but it may be done tately and warrantably, if that the Small Pox do not come out kindly; but appear, and then retire in again, or come out so flowly, or evil coloured, as that the Patient may be in danger to perish during the progress of the malady. For in the first case, is a certain sign that Nature is not able to govern those humors in the first eruption, either because of their malignity, or surcharge: and if it be not to be done by her, when the Disease is not arrived to its height, nor she as yet much debilitated: how can we imagine. but she must fail in the vigour of it? It is therefore requisite that a Physician (duly considering all circumstances) do proceed to secure the infirm by a minute, and perhaps iterated blood-letting, For it is not here as in other putrid or malignant Feavers, in which we have a greater latitude of practife; and what Nature cannot effect by one way of termination, may be accomplished by another. The concomitant Pox alter the course of the Feaver, and suffer it to admit of no other issue, but by a due maturation of the Pustules: fince therefore that Phlebotomy promotes the eruption. and by altering the texture of the whole body and facilitating transpiration doth diminish the morbifick matter, hinder putrefaction, extinguish the Feaver, and to alleviate Nature, that she is enabled to prosecute happilyher work; I see no reason, but that it ought to be administred: and the same considerations do sway

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me to approve of it in the latter case: for if the Pox appear malignant in their first coming forth, their continuance will prove fatal, if this Remedy be not: applyed: for we have none so effectual. No Minoratives can be used to disburthen part of the humour; no powerful Cordials: for those, however they seem to yield a present benefit, do in the issue debilitate Nature, dissipate the spirits, retard the maturation, and oftentimes increase the Feaver, and occasion a Phrenitis, or other deadly symptomes. Vesicatories are attended with no less jeopardy, not only for that they frequently cause bloody Vrines, and exulcerate the Bladder, and procure a vexatious tenasmus, ( which I have feen to fall out, when they were applyed in other distempers) but because the ill-conditioned matter being attracted to them, may cause a Gangrene, or otherwise endanger the Patient: upon which account, I do not remember any that ever proposed them in this 'Tistrue, I knew a Person of Honour, who in France was four times blooded pretty largely before their eruption, and then had Pigeons applyed to his face and other places (because they came not forth well) and so was recovered: 'Tis true that Prosper Al- Prosper Alpin. pinus doth commend Inunctions with Nitre and Oyl of de med. meth. bitter Almonds to be used once or twice in a day: but de medic. besides what Melichius records, the practile being Egypt. 1.4. novel in England, and seldome used in Europe, I believe C. 15. Melichim &r. no discreet man will adventure his credit, or the life mament, meof the fick thereupon; but rather acquiesce in the dic. dist 9 in received, warrantable, harpy practife of the generality Scholio super of Phylicians.

In case that there be a great redundancy of the mass of blood in the aforesaid cases; so that Nature seems oppressed, and to be so streightned, as not to be able to free her self from the corrupted humours, who can doubt but the Thysician hath more reason than Gg otherwile otherwise to phlevotomise the sick in this time of the Disease? It is a Rule in Physick, That we ought to atsend principally in diseases to that which is most urgent ; get so as not to neglect those other considerations which arise from the nature of the Disease. In this last case the regard unto plenitude is most urgent. For if there be so great a Plethora, as that there is danger least the Patient be suffocated, and the natural heat extinguished, which is the supposition of Avicenna, when he sayes, Timetur super eum corruptio extremitatis. And if Phlebotomy either hath been omitted, or not administred as 'twas requisite, who can imagine that Nature will be able to govern and regulate fo great a farcharge to the benefit and recovery of the Patient, but that when the humours separate and extravasate, some part will mortifie and sphacelate, or the party be suffocated? It is really to be supposed that the sick perfon will dye within a short time, except Nature alleviate it self by a large efflux of blood at the Nose. It is here as it is in a Synochus putrida, (for commonly tis a Synochus putrida which accompanies the Small Pox ) in which if either by reason of the reluctancy of the Patient, or ignorance of the Physician, blood-letting be omitted, the case becomes exceeding perillous, except Nature be very strong, or a great flux of blood, or plentiful sweat succeed: as Galen relates in the minth Book, and fourth Chapter. 'Tis meer folly here to object, that albeit that Phlebotom, be omitted, yet ought we to presume well of the Patient, because the small Pox do come forth: as when sweat appears in a synochus: for there is a great disparity in the cases: The sweat is discharged out of the skin: the Small Pose are lodged in the surface of the body, and must there be maturated; besides that the small Pox infest also all the inward parts; so that the danger is greater here, than upon the eruption of (weat: Moreover the smeat: consists of a more jubile and Ichorous substance, and:

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and finds a more facile and certain exiture; but the small Pox are of a groffer substance, and come not forth with equal facility. It is also to be considered, that as a large evacuation by fweat may happily terminate a synochus; fo, although the Patient do abound with blood, Nature may sometimes so expel and regulate the matter, that the party may avoid the imminent perils: but he that trusts thereunto must well ponder not only how plentifully the Pox come forth, but whether it be proportionate to the exigencies of Nature ( for whatever is not such, is minute) and what alleviation infues : not to mention other things. And as when sweat doth not appear in due time, due quantity, with due qualifications, the Patient doth nevertheless dye: So we daily observe it to fall out in the coming forth of the Small Pox. And therefore I do affent unto the directions of Avicenna, and Augenius, that in case of this urgency, Phlebotomy be judiciously made use of: and whatfoever danger may seem to be in it, 'tis prudence to submit thereunto rather than to incurre greater.

Hitherto I have treated of Phlebotomy as dis an evacuative and relaxing Remedy; but there is oftentimes occasion for it by way of Revulsion, when not only the Eyer are in great hazard to be spoiled, or the blood stagnates about the Heart , Lungs, and Thorax : or that the Small Pox very much affect the Stomach, and Entrails, or occasion a Diarrhea, or Dysentery: For in these cases, 'cis most probable that the Patient either will not live to the flate of the difease, or dye then. 'Tis a received tradition from Avivenna downwards, Diemedes Amithat in case the Patient in the small Pox do breath free- cos de varioly, and fuffer no defect in his voice, there is little, or no danger; unles some accident introduce a Dysentery: Because that is a fign that the Throat and parts relating unto respiration are secure. But in case it appear Gg2

that the inward parts are infested by the Pox. and that favourings, vomitings, difficulty of breathing, a foar throat, and great hoar sness trouble the Patient, 'tis most manifest that he ought to be blooded for repulsion; least in the state of the Disease, the Pustules coming to maturation, may by their purulent stench annoy, or by their growth and inflammation suffocate Nature, or exulcerate and apostemate the Lungs. It is usually seen that people dye of the Small Pox in the State of the Disease (on the fixteenth, seventeenth, may imentieth day ) though they have seemed plentifully and kindly to come out: and the reason is (I abstract from all errors) because a due regard hath not been had to those that infested the inward parts: for they have exulcerated the Intestines and created Fluxes; they have occasioned in their maturation a new and perillous Feaver, a Squinancy, a Pleurifi:, and particularly by affecting the membranes of the Sto. mach, they have created Vomitings and Lipothymies, &c.: And this will feem credible to any that by confidering what happens in the furface of the body, apprehend what must ensue upon their maturation within: and those Ignorants wno have admired at these events in the state, and declination, will cease to monder, when they assume these thoughts of Physicians, and weigh attentively the augment, State and Declination of the Pustules.

To conclude this discourse; who hath not seen in the Augment of the Small Pox large eruptions of blood at the Nose, as also menstruous Fluxes ordinately and inordinately to intervene, without any peril; sometimes to the great benefit of the fick ? About fourteen years ago I accompanied an eminent. Physician to a Patient of his in whom the Small Pox were come out well coloured, and plentifully, yet did the Feaver continue, together with a deliriousness, want of sleep, and

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reflegnes: to all which a great Hemorrhagy at the Nose (of above fourteen ounces) did put a period : and of the latter case, I had (amongst many others) an happy Instance lately at Warwick.

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Instances of the happy success of Phlebotomy in the Augment of the Small Por, after they were come forth.

- 3. 7. The illustrious Lord of Poyrin, a strong Boullin de young man, was seised with a violent putrid Feaver; venæ sectio. on the third day he was taken with a loofenes, which resembled what Physicians call a Diarrhes: on the day following the Feaver and Flux continued with the same violence, and a multitude of red spots appeared all over his body, with a little protuberancy: on the fifth day; all symptomes persisted in the same violence, or rather encreased, whereupon I being prefent caused him to bleed eighteen ounces; after which operation all those perillous symptomes did so abute, that within two dayes there was not any thereof remained.
- 2. 8. On the same day that the aforesaid Lord was let blood, and in the same house, there was a Servant of Mr. Barrussa, who was sick of the same diftemper; but he had no Flux: he had been fick four dayes, and two dayes were passed since the Small Pox appeared: He was of the Age of eighteen years. I took from him a pound of blood 3, whereupon all his diftemper left him, and he went about his business, attending on his Master, on the day following, which was the fifth day of his lickness.
- d. g. Such Phlebstomy did also recover Mr. Clermont from a Feaver, and the Small Pox: as also Villard, one of the Queens Pages 3 and another Page of

of the Duke of Alencon's, and many others were cured by me in that manner. Also that learned Physician Pietreus told me, that he practifed this course with good fuccess upon his own Son.

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I came now to the third Question: Whether in the State of the Small Por Phlebotomy may he anministred? I call that the state of the Small Pox, when they are come to their full bigness, and become white, and replenished with suppurated matter: or in case they are malignant or deadly Pox, I call that the State, when the Pustules ( being green, blewish, or black) are exulcerated, the subject parts corroded. and a stinking, black or greenish purulency issues. And here I avow that a Phylician may sometimes according to the Rules of Art, and with great judgment administer Phlebosomy. 'Tis most true, that I cannot (to my knowledge) defend this practife by the Authority of any one Writer in Physick, except it be 7. Frommannue, who finds some cases in which he justifieth it venæ sect. in in the state of the Measils. 'Tis also true, that the bill. sect. 104. common Precept amongst us is, not to disturbe Nature in Hippocr. Aph. the State, when the is busied most about Concodion; but rather to supersede from the great Remedies. But I have learned from our Masters, that there is scarce any Rule in our Art, the Obligation whereof is not suspended by uragency, and that they conclude us in the ordinary, not enforced procedures: " Necessity is e absolved from all Laws; and Wisdome it self prec scribes that we should not alwayes take its counsels: 'tis certain she meddles not with the regulation of extremities, nor with the conduct of Despair: she in fome encounters dispenseth us from those things, which in others she ordered us. Without offending her, we e may crost he fields when there is danger on the right and left and try whether an excessible not cure as when other remedies have ill operated; and cast our selves

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into the armes of an enemy, when she is no longer able to defend us. I am told by Vallesius, that although Diocles, and Celfus, and some others have prohibited Phlebotomy after the fourth day: and though Avicen- Valles. meth: na profess that venæ-section being once pretermitted med, 1:4.c.2. ought not to be resumed: yet both these tenets are erroneous: forthough Phlebotomy be most convenient in the beginning of the Disease, yet ought it not to be excluded in the other times, when occasion requires it. There are few Diseases whose beginning extends not it felf beyond the fourth day: and even in the declination oftentimes we may beneficially let blood, for the attemperation of the inward parts, to ventilate the body, and allay its inward fervour: How much more then in the Augment, and State? Besides, Galen himself laughs at those who confine the use of Phlebotomy within a certain number of dayes. G. Quocunque Gilen. de etenim die mittendi sanguinis scopos in agrotante in-fang.missiones veneris, in eo prosidium hoc adhibeto, etiamsi vige simus abinitio morbi dies fuerit. Quinam vero fuerunt hi c scopi. Magnus morbus, virium robur, excepta atate puerili, & ambiente nos aere admodum calido. In another place he sayes. There is not any time of a disease in Gilen. methic which you may not bleed; but the sooner it is done, the 19.0.5. better. Another sayes, Vbi mignitudo morbi postulet, & vires permittunt, non solum octavo die, ut Hippocra- in C. Cels 1 22 tes Anaxioni, sed & decimo, ac vigesimo, felici successu c.10. p.94. evenam secamus: This point is excellently prosecuted and illustrated by Forallus, to whom I referre our Experimentators for to be satisfied. And I must avow that in other diseases shave never scrupled at this caution, as others, but practised it with

Brallus de venæ section. 22: Concerning bleeding in the: Augment, State and Declination of a purid Feaver, fee: Caspar Bravo Resolut Medie. p 4. disp. I. sect. 7. resou lut. 8, 9, 10.

successin the state, and sometimes Declination. And why we may not do it in this Disease? is the present Question. It is certain that in the Small Pox at this time, there happeneth sometimes a Strangulatory · diftemperr

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distemper or Squinancy, sometimes a Pleurise; sometimes a Diarrhaa or Dysentery: sometimes an immoderate Flux of the Menstrua: In all these cases 'twere great indiscretion, if not ignorance, to omit Phlebotomy: If any of them can be disputed, risthat of a Diarrhaa and Dysentery: and yet that is so vindicated by Botallus, and Prosper Alpinus, (not to mention others) and attested unto by a successful Experience. that 'tis no longer a Controversie. I have already shewed that Phlebotomy doth not draw back the expelled matter: but promoteth transpiration, which is impeded by the maturation of the Pox, during the State: it ventilateth the blood, hindereth further putrefaction, and diminisheth that plenitude, which. whatever it be, is too much for debilitated Nature to govern: it revelleth the impacted humours, or fuch as are flowing to any determinate part : fo that not only in the aforesaid cases; but if a new feaver arise then, or any danger threaten the Patient in the declination (both which cases often occurre) Ido not see why it may not (or ought not) to be done, whatever the peril be that may happen thereupon. Few there are but have so much strength, as to bear a small evacuation by blood-letting; and he is unacquainted with his profission, who hath not seen prodigious effets arise from a minute Phlebotomy. Our Writers do sufficiently explain the figns by which we are to be affured, Whether the Patient can bear Phlebotomy 3 and in what quantity: which conjectures if they be not duly pondered. 'cis the default of the Physician, not of the practise, when any sinister event doth ensue. And therefore I can only recommend to the World this caution, that they make use not of such Praditioners as talk most, and pretend to new Reasons, Methods, and Medicaments; but of those who best understand the old Diagnestics, Prognostics, Methods and Medicaments, in order to a care: and have from more than one or two

Botollin c. 5.
Prosper Al irin de med.
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Books informed themselves of the history of Physick, as it relates to particular cases, and by a diligent attendance on their practife observed the truth of what they have read, and learned to accommodate their Rules to each individual. Could a man ocularly demonstrate all the curiosities of Malpighius by the best Microscopes, or manifest the Ductus rorifer of De Bils unto any Spectator: nay, what if he could make the volatile Salt of Tartar, or the Helmontian tincture of Amber, or even the Philosopher's stone, what is this to man= stife? How much less are they qualified, who can al. ledge nothing for themselves then that they are enrolled in the Society of the Rosicrucians; that so many men extol them, who are obliged to magnifie ( justly or undeservedly) all of their number; and that they are good Wits, ingenious Drolls, Masters of some Mathematical and Mechanical knowledge? As to the point of Concoction, that tis not to be hindered; In the small Pox, if they be falubrious, this confideration is overswayed by present Urgency; and if it were not, yet would that repugne only to a profuse evacuati= on; and contra-indicate no more, then doth the regard unto the strength of the Patient: a minute and partite Phlebotomy doth not impede any concoction; as our book cases, and daily practise sheweth: And in case the Small Pox be perillous or deadly, 'tis most certain that there is either no concoction at all, or so imperfect a one, that it doth not at all oblige the Physician to supersede, but rather to proceed hereunto, except he be timorous and unwilling to disparage so generous a Remedy, or the Patient and Attendants be averle from it. Neither of which regards are so authentick as to derogate from the attempts of those who will not abandon their Patients to the uncertain prognostics of acute diseases: however they may in some sort excuse those that take a contrary courle.

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The last Question is, Whether in the declination of the Disease a Phytician may practise Phleho= tomy? I call that the Declination of the small Pox. when the matter in the pustules is condensed into Scabs, and they dry up, and the Epidemis with them doth pill off, leaving impressions or marks in the Skin. This Question doth not relate unto the mortal Pox, for Hor. Augen, de they have no declination; but to such as are salubrious, and though they may have been accompanied resolut. med. with dangerous symptomes, yet are now in an hopeful part, a.difp. 3. way of recovery. Or if we must allow a Declinati= on in the pernicious malignant Small Pox, it can be only one that is uncertain and fallacious; for when any Patient feels an unexpected alleviation, and such is grounded upon no reason, there is no trust to be placed Hippocr. aph. therein. G Iis que non secundum rationem sublevant. 'nonoportet fidere: neque terreri multum, ob mala que opræter rationem finnt: pleraque enim horum sunt infirma, neque diu manere atque durare consueverunt: In this time, I say, there may happen such cases as require Phlebotomy, and in which it ought to be practised. 'Tis Hor. Augen de observed that a Flux in the declination of the Small Fox is generally mortal, although it be not accompanied with a Dysentery or exulceration of the Gutts. It is no critical evacuation, because such happen not at that time: and because it befalleth the Patient in the most unseasonable time of the Disease, when Nature is most debilitated with the precedent Disease, and ought

rather to testifie signs of strength, then of further im-

becillity; it enforceth us to employ all those cares

which a symptomatical evacuation doth call for: and

in this case, since purging is dangerous, and astringents

full of hezard, there feems no way fo fafe as Phleboto-

my duly administred. It may also happen that the Patient fall into a Pleurisie: Thus in the case of Frommannus, in the declination of the Measils, the Gentlewo-

man fell into a Pleurisse, which he indeavered to cure

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by Phlebotomy, and was defended in the practife by the

best Physicians in Germany.

The Reasons which have been urged already in the other times will many of them justifie the Practitioner in this: and nothing is more certain in Physick, than that the use of Phlebotomy is not indicated by the time of the Disease, or contraindicated by any number of dayes, but by other motives: and that when sever it is necessary upon any urgency, nothing but mant of strength doth repugne thereunto.

It may perhaps be demanded, Whether upon the declination of the Small Pox, if there be any danger of an Asthma or Consumption to be contracted, it be safe to let blood, or in order to better conva-

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I profess it may safely and prudently be done for Revulsion, before the humours be more radicated and setled there, and the Disease become incurable: for this is an infallible fign that the Disease is not well terminated: and then those Rules which oblige us not to intermeddle with any perfett Crisis, or indication, are infirm, conclude us not. Oftentimes we see Rheumatismes, and Botchesto ensue, and they shew that all the morbifick matter is not ejected : Besides, in order to a better convalescence, if Phlebotomy have been omitted in the beginning, and that the recovery is likely to be flow, I think (and 'tis said to be the judgment of Avicenna) that it may be done: and I have scenit practifed with a much more happy success than ever I faw Purge given in that time: But in this last case I referre it to every mans judgment to act as he please; and request only that they would not condemn others of a different practise from what they follow.

After all this discourse of bleeding in the Small Pox, I must conclude with this intimation, that in sundry cases, and some habits of body, 'tis possible that Phlebo-

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Prosper Alpinsu de medic Ægypt.1.3.

tomy may be supplied by cupping-glasses and scarification: and I profess, that were the Scarification of the Agyptians (mentioned by Prosper Alpinus, and frequently used amongst the Ancients ) admitted into our practife, I should frequently prefer them before any Phlebotomy: Being in Jamaica I observed that the Spanish Negroes there did much use them: and during my sickness of the Colick bilious, I had the curiosity to have them tryed upon me in the beginning. I observed that they were as indolent as Profeer Alpinus and Mannus do relate them to be: but no blood almost ensued thereupon: whence they prelaged to me a long and violent fickness; faying, that all the water of my blood was translated out of the veins into my bowels: yet I have feen them to extract one from another a pound, or more, as they pleased.

But I find my self wearied with the prosecution of this Letter; and the sickliness of the season permis me not leisure to carry on the debate unto the Stur-

Forrestm 1. 20. obs. xi. xii, Claudinus Emperic. ration. s. s. sect. 3. tract. 4. c. s. loel pract. l. 2. sect. 5. 4. R. Dodonaus obs. med e. 33. Eugalen. de scorbuto, p. 150. 151.

B. Brunersu ( sub finem Eugaleni) & H. Brucasu ibid.
Bildissar Timasu cal medic.

1. 3. caf. 39.

Platerus prax. t. 3. p. 431.
Sennertus de scorbuto, c. 7.
B. Ronfisus de scorb. c. 8.
Wierus in curat. scorbuti.
S. Albert de scorb. § 240,&c.
M. Martinus, sect. 145. &c.
Gregor. Horstius de scorbuto
exercit. 2. sect xi.
Mollenbroccius de varis c.8.
&x. 13.

ney: But whofoever examines attentively that difease, will be easily satisfied that it may be beneficial, and oftentimes absolutely necessary to the cure thereof. In those Countries where it is most frequent, and where the climate bears a great correspondence with ours, this is the practise: as you may see in Forrestus: I add the Authority of Claudinus: Joel, (who prescribes the repeating of Phlebotomy at least three times) Rembertus Dodonaus: Severinus Eugalenus : Balthasar Brunerus : Henricus Brucaus: Baldaffar Timaus, (who also reiterates bleeding several times ) Platerus : Sennertus : Baldwinus Ronsseus : Jo. Wierus: Salomon Albertus: Matth. Martinus: Gregor Horstius: Valentinus Andreas Mollenbroccius ::

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lenbroccius: and the Colledge of Phylicians at Coppenbagen ( in their advice for the Scurvey, published by Bartholin. cist Bartholinus ) I might add others to this Catalogue, but that 'twere needless. 'Tis true, that in the Scurvey many do not bear well large 19hlebotomy; but that is not the Question: 'tis enough that they minute vene-section, and that reiterated, doth agree well with them. and is oftentimes so necessary to the cure, that the omission thereof doth frustrate the most efficacious Medicaments. The Disease generally ariseth from an obstipation of the Pores, and such an alteration in the texture of the body as the Methodists would bring under Austriction: and therefore it seldome occurreth in hot Countries, except the wind suddenly change into a cold quarter: and a multitude of Cures are recorded wherein Phlebotomy hath been the leading Remedy. The fick do frequently bleed at the Nofe, and Emrods, &c. and fince in distempers of the Spleen I find Ph'ebotomy commended, 'is not to be denied in this case, without some special contra-indicant, which I am not yet acquainted, with.

I think I have in the precedent discourse enervated all that M. N. hath maliciously and ignorantly suggested against Phlebotomy: neither do I know one passage in him that can raile any scruple in the breast of a judicious person: but I must particularly caution him not to give too much credit to the dotages of Thonerus, a man of little note in his own Countrey; nor to go about to delude the World with Fables, as if the Northern Climates did not fuit well with Phlebotomy: whereas it is notorious that no Mations do bleed more largely, nor more frequently than they: I will not infift on what they do in their natural or artificial Bathes, with Cupping-glasses and scarifications, whereby they ex- Th. Tordan do tract many ounces frequently every year; they apply page ing ten, or fifteen Cupping-glasses, with Scarifications; which lometimes they repeat twice in one hour.

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As to Phlebotomy, in Denmark nothing is more common than whenfoever the Almanack recommends bleeding, for every man almost to step into the Barbersshop, and having bled, to go about his business: which custom though Bartholinus condemn, yet doth it evince the general use thereof in time of health: and who can doubt but that they who bear it so mell, whilest free from any Disease but a tindure of the Scurvey: might endure it in sickness? did not a puerile fear in the Patient, or ignorance in the Physician, hinder them. Th. Bambolin, ce Adultiores alii in venarum apertione nimis sunt profusivel audaces, quippe visa fascia rubente ante ades

differt. 9. P. 431, 432.

Chirurgorum appensa, ex Calendariorum signis dependentium, statim sine alia corporum praparatione in e sella officinæ considentes brachium sine delectu pertundendum offerunt; & peracta operatione vel itineri se committant, aliisque negotiis conficiendis, vel vini modium ebibunt : cumulati errores acri censura digni sunt : sed verba perdere nolo, quia Æthiopem me lavare scio. Monendum tamen duxi, scozbutica nostra corpora e maxima indigere præparatione antequam generoso isti remedio subjiciantur. If letting of blood were so pernicious in the Scurvey, 'twere impossible in so general a practise but the inconvenience would be discovered: and the people reclaimed from that inveterate vulgar custom of switzerland; is, he that blameth it, doth thus describe. 's Solent nostrates, Ruricola inprimis, ter quaterve in anno venæsectiones usurpare, & apoplexia hi- e quolibet vice duas, quandoque tres, non raro quatuor vee nas pertundendas curant; emittunt sepe binas sangnienis libras: Mulla cura est vel temperamenti, vel ' serus, vel atatis: Videntur quandoque gravida, qua bis terve gestationis tempore sanguinem vena sectaeffundunt, nec etiam partui vicinæ a venæsectione sibi temperant, persuasæ salubrius puerperium agi. Vidi fenes octuagenanios hoc remedii genus expertos: nec sane guine fuso admodum solliciti sunt, qua ratione inanitæ

Webserus de flor. 3. p. 12.

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venæ prestantiore sanguine replendæ sint , frequenter enim statim ac secta vena est, & cibo & potu nimio corpus inferciunt. I have not read of the like pra-Stifes in France, Spain, or Italy: Nay, 'tis in Germany, that for bealths sake very old men bleed largely twice each year: instance whereof are given by Faber in his Notes upon the Mexican Herbal. 66 Reverenda ca- Rolfinc. mee nitie, & septuaginta annorum decursu venerabili præ. thod. medic. fuli Jenensi Johanni Bajozi plethorico salutaris erat fect. 2. cap.s. Sanguinis per venam sectam missio. Neque ingraves cente atate ab ea erat alienus. Attingebat annum 89. Genili confectus marasmo. Out of which'tis evident, that whatsoever the German practise be in Diseases, 'tis not their Reason, but superstition and imaginary fear that makes them to decline to bleed therein: Nor do I find the relations of M. N. to be consonant to the usage of the German Physicians, except you will judge of them by the adherents of Helmont and Paracelsus. I might except against Thonerus, that in his Appendix he professeth that he doth not absolutely reject Phlebotomy even in malignant Feavers: and as good, if not a better Physician than he doth give this account, in opposition to him: " Experientia testa- 10.0an. Horsti. tur quod non solum in febribus his, sed & in bit = m obil&cepillriolis & mozbillis, venesettio in initio adhibita ep. x p.54, cor humoribus non repleat, sed roboret, ut expellee re possit sufficienter variolas, Bozbillos & Pe=

But I find my self to exceed the bounds of a Letter; but I hope you will pardon the length of it, since it was an effect of my compliance with your desires: and if I have not fully answered them, nor polished my Discourses as they might otherwise have been, be pleased to consider the shortness of the time allotted unto me, the great distraction with which I write,

write, and the multiplicity of controversities I have intreated on, and the multitude of books which I found my self obliged to consult, and transcribe passages out of; and then I doubt not but I shall obtain your pardon, whereunto that I may have the more colourable title, I avow my self to be

Warwick April 3

Your most humble and

devoted Servant

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Passages

### Passages to be added.

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Where I speak concerning Pests, that though agree in the same Generical Nature for the most part, yet do they seldome or never appear to be of the same species, so as to be cured by the same Method and Medicaments: because I find some so ignorant as to scruple thereat, I add here the testimony of Felix Platerus the renowned Physician of Basil, who lived amidst seven Plagues.

Felix Platerus prax.t. 2. p. 69. de febr. causis.

venenum pestilens ejusdem naturæ minime esse, sed diversæ, effectus illius tantopere disserentes, qui corporis affecti constitutionis solius causa, non sic variare possent, ostendunt. Cum aliqua regeret pestis, quæ sine discrinine in omnes vel plerosque sæviat: alia vero paucos tantum invadat: alia quæ quotquot tetigerit, intersiciat, magnamque stragem edat: alia, qua correptorum multi sanantur: verum quidnam in veneno latens illius varietatis causa sit, atque unde prosiciscatur, uti o in cæteris venenis, describi minime potest.

The same is averred by Joseph de Medicis a Candiot, who had seen many Plagues in Greece and Turky, in Agypt and Palestine, in Tartary, Valachia, Transylvania, Russia, Poland, Lithuania, Prussia, Denmark, Saxony, Holland, Germany, Bohemia, &c. and never declined to visit the sick.

Joseph

Joseph de Medicis Cretensis inter opera Gregorii Horstii t. 2. 1. 1. de sebribus, pag. 46.

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Secundum, Assero unamquamque pestem vel morbum pestilentem, propriam habere naturam & peculiaria accidentia concomitantia velinseparabilia, neque ejusdem speci i esse omnes pestilentes morbos, ut ctiam plures

6 & diver a funt species venenorum.

colinjectum, Vi unumquodque venenorum, vel assumptum vel injectum, vel admotum propria sequuntur accidentia (symptomata supervenientia Medici appellant) & proinde peculiaria requirit antidota & alexipharmaca; ita unamquamque pestem habere propria symptomata, & proinde indigere propriis prasidiis: quod Axioma non advertentes vulgares & triobolares Medici, eandam herbam v. gr. Tormentillam vel Scorzoneram, quam quondam aliquis in bello Trojano longe alia peste affectus cum utilitate adhibuerat, tanquam Catholicum Alexipharmacum, ac si esset Theriaca, in omni cujus cunque generis, regionis, & seculi peste, indiscriminatim, omni atati, & sexui approbant, exhibent & cum magno vita discrimine usurpant.

The fame Author in that most excellent discourse of his, (which contains the result of those thoughts which forty years practise had created in him) afferts Phlebotomy in the Plague, Spotted Feaver, and Small Pox: and concludes his discourse with this Relation,

#### Ibid. pag. 57:

"Unicam Historiolam placet hie afferre, quod mihi
ipsi evenit τωμνήμων χάνη breviter narrare. Anno
1629. Amstelodami (ubi aliquot annos publica stipe
allus vitam transigi) pestis grassabatur, primo quidem
folos in pauperes & egenos latte & caseo vistitantes, sed
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e postea Antumni tempore enormiter ferociebat, & plebem & patritios indifferenter invadebat [avi|[imeque e depopulabatur, adeo ut singulis diebustrecenti vel quas dringenti deficerent: Nemo mihi nec aliis phlebotomis am consulentibus annuebat (erant vero tunc temporis ibi e magni nominis Medici ex natione Lusitana, præsertim · Zacutus vir eruditione in signissimus, & multa experienstia clarus) sic misere multa hominum millia peribant: funt enim Belgæ omnes natura dipopisot, i. e. sanguinem e mittendi timidi tanto magis tempore pestis, in quo is se 'sua gentis Medici phlebotomiam detestabantur; aliquibus sanguise naribus ubertim stuens plurimum conferebat, ut etiam bubones erumpentes in emunctoriis copiosam saniem eructantes, absque periculo infirmos esse, declarabant. Plurimis in gutture fiebant inflammatioenes, quibus neque venarum sectio sub lingua, neque garce garizationes vel cataplasmata ullum emolumentum affee rebant, ante enim maturationem strangulabantur. Ego evero cum eadem lue me graviter oppressum & improba e angina fere enecatum viderem, quod mihi fuit vere noe vum & inopinabile, cum nunquam peste suerim infe-Eus, et si audenter eadem lue infectos semper visitaverim, ' sed incolumen me conservaverim, tertio vel quarto die ( tentaveram prius multa media & prasidia an possem a stanto malo liberari) justi venam medianam dextri cubiti mihi secari, & sanguinis sesquilibram mitti, a qua cum nibil detrimenti, vel virium languorem percepissem, (quamvis neque etiam morbi remissionem) sequenti die tantundem ex altero brachio exhauriri impecritavi: quæ solo præsidio, deinon abneuente, totam virulentiam e corpore em si, & breviter me a tetrica peste expediri, atque hostem jugulum petentem, plumbeo (ut aicunt) gladio jugulavi: quod fulutare Medicae mentum plurimi postea adhibentes atque mea vestigia · sequentes, scilicet sanguinis missionem celebrantes, vesere e mortis faucibus erepti & vindicati sunt.

In

In the account of the Small Por I omitted the opinion of Franciscus Oswaldus Grembs, a German Physician of good note, and great admirer of Van Helmont, who yet allows of bleeding, in some cases, in the Small Por. His words are these.

Fr. Oswaldus Grembs: Arbor hominis integra & ruinosa, 1. 2. c. 3. de febr. malign.

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"The danger of the Small Dor doth confist in two cases: First, if Nature move the hot and vitious humors, and is not able through debility, or their teactionsness, or the dense habit of the body, to expel 'them: and then the Disease becomes deadly, the hu-'mours recurring upon the Heart and Vitals: Secondly, if Nature do protrude them forth, and is not 'afterwards able to regulate them by reason of their "multitude, or malignity, but that the Feaver becomes e more malignant then at first, and either dispatcheth the fick, or destroyes some particular parts with a e most fætid corruption therof. There are four Indications for the cure of the Small Por: The first is to evacuate what is redundant: The second is to e prosecute the emotions of Nature: The third is to 6 restrain the venenateness of the Disease: The fourth s is to secure some particular parts. And because the Feaver which goes along with the Small Pox is a Sy-'nochus, it requires Phlebotomy; here is no room for purging. In Children Scarification in the Armes, calf of the Leg, and Nostrils, or Horse leeches applyed to the Back, Breech, or Thighs, may be used instead of venæsection, when the Small Pox do not come forth. If the Pox do come forth kindly in the beginning, onone of these things are to be practised. In grown people a minute Phlebotomy is to be practifed after the first or second day only, when the Humors are protru-'ded, 'tis dangerous (for it draws in the Humours)

except some new accident, as a Pleurisse, does render it necessary. When they are coming forth Nature is to be aided with Frictions, and Alexipharmacal Cordials, as Bezoar, Unicorns-horn, Electuarium de Gem-

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A noble Lady of the age of fourteen years fell fick. and bled at the Nose, she had a nauseousness at Stomach, and great pains in her back: the Physicians being fent for, a Clyster was proposed of Broth with <sup>c</sup> Cassia, it came away without any operation: her pains and Feaver increased, and certain spots appeared behind her Ears, which portended the Small Pox: one of the Phylicians commended blood letting, as the most suitable remedy for a great disease, and not inconfistent with her years and strength, especially c fince the was plethorical; hereby, he faid, the blood being diminished, the vessels would be less distended, the malignity repressed, and pains mitigated: But so it happens frequently, that we cannot embrace the 6 most obvious counfils, whether it be an imbecillity in our minds, which being distracted betwixt hope and fear, and follicitous about the future, forgets the prefent urgency: or whether it be the method of Providence, which to effect its designs transports us befides our selves: The rest of the Physicians seemed aftonished at the proposal, and neither assenting, nor diffenting, proceeded only to infinuate the peril of that operation: But, that they might feem to do fomething, they proposed an anodyne Fomentation to mitigate her pains, which having continued ten hours, produced no benefit: The ensuing night she was very restless, and on the morning her strength began to be sensibly impaired: thereat the Physicians were much troubled, and confidering the prefent exigency, they gave her a Cordial of Bezoar and the species de Hyacintho: it was not given sooner, because there was amongst the number one who

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was extreamly averse from giving any Cordials in the small Pox, to bring them forth, as if thereby the hu-' mours were exasperated, the ebullition rendered too violent, and the Pustules protruded in so great an excess as to strangle the Patient, he said that Nature 'understood her own work, and could do it best, that 's she was to be lest to her self, and needed no incentives: And by these suggestions he intrigrued the determinations of the Physicians, fo as that no Cordialor Alexipharmacon was given sooner. The Pa-' tient having taken some of the aforesaid Cordial, and afterwards avoided a great deal of blood by Urine: which yet some suspected to be a Menstruous excrection: a little after she vomited up a great deal of blood: this same took to be a Critical effort of Na-' ture, which had alleviated the violent ebullition of the blood in the greater vessels by discharging a part thereof at the Mouth and ordinary passages: in the mean space, the malignity of the Disease prevailed ' above the strength of Nature, the whole mass of blood being vitiated, and 'twas a miserable fight to behold the poor Lady as it were drowned in her own blood, and thus destroyed: all her back was full of large livid feelings of blood, as if she had been bruised or whipped with cords; and being dead her body was opened on the same day, all her Bowels were sound, the Liver in no default, only the Lungs were blackish through the adultion of the blood in the Disease. Grembs doth And now the Physicians quarrelled one with anothere delend 'ther; one blamed the clyster, which impeded the the use of course of Nature, and retracted the humours inprodical histor wards, whose tendency was to the habit of the bories: and fo c dy: Others censured the Fomentation, which though doth Augenim anodyne, might close the Pores, and give occasion to others and I the bloody urine, by repercustion of the pultulary have known a matter. Thus one Physician inveighed against the w thout any 'errors of the rest; whilest indeed all of them ought

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e privately to confess, that their great failour was in omitting Phlebotomy, and that this was the cause of her death. Thus Physicians oftentimes coccasion the death of their Patients, by not doing " what they should, and not only by over-acting: this last is the default of those who attend on the sick, and first try their own pretended Experiments, then have recourle to the receipts of the populace, or prefcriptions of some practifing Ladies, and thus by doing what they ought not, they most officiously kill the ' fick, and prevent the seasonable advise of mise Physicians, who ought to have been consulted at first. These kind of persons are in as much default as those timorous and cautelous Doctors, who dare not admi-'nister those Remedies which are necessary in acute diseases, but by neglecting their Patients, suffer the Disease to prevail over the vital faculties, and kill the infirm.

Thus far the Helmontian, but (to give him his due) judicious Practitioner: and I recommend this case to the Abettors of Doctor Whitaker and Doctor Sydenham: since there appears upon diffection that the small Pox had not fixed themselves within; but that a meer furcharge of the mass of blood (either natural, or contracted from the attenuation of the ebullient blood) was the cause of her decease.

I forgot in the conclusion of what I writ of the Small Por, to speak about Bathing of the hands in the Small Bor, the practile whereof Doctor Whitaker represents, as having been fatal to the Princes Royal. His words are, 66 I observe Riverius above pag. 60,610fall other Authors to ordain the bathings of the 5 hands and feet, by reason of the density of those parts. in some more dense than others, as in Smiths, Carpenters, and Foot-posts, whose hands and seet are harder than

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than persons of a more tender and sedentary Trade or Profession. I cannot but acknowledge that hue mectation, and attenuation to mollifie those parts, is oproperly indicated; but the mode of this application is observable, because upon the opening of the poroc sities by bathing, the ambient air may obtain the ade vantage of repelling the morbifical matter from those ignoble and extream parts to the more noble, by the ambient air in the course of sanguineous circulation; and hath proved fatal in such as have rare and tender skins, as is proved by the bathing the Illustrious Princes Royal. Concerning that Princes how she was ordered, and at what time of the Disease bathed thus, I know not: but 'tis an equitable presumption that in so important a case so understanding Physicians as she employed, did nothing rashly, or without reason. I find in the relation of her being diffected causes enough of her death, without imputing it to this usage: her Omentum was putrified, and much inflamed towards the Spleen side: her spleen was flaccid, and semi-putrid: her Stomach was inflamed, and on the inside beset with Aphthæ: her Liver spotted, and inflamed even to a Gangrene almost: her Lungs in a manner rotten, and replenished with black blood, spotted and pustulated in the superficies, the Parenchyma of her heart was much consumed. But had not these things been, nothing is more certain, than Th. Bartholin. that of Betronius. Quod non expectas ex transverso fitz et super nos negotium Fortuna curat. But that Riverius doth prescribe this Bathing above all Authors, is a manifest falsity. His words are only these: Laz. Riverius C. Ac primum in eruptione Variolarum, aut dum matuprax. medic. rescere incipiunt, ingens dolor vel pruritus interdum e agrotantes affligit; prasertim vero in plantis mannum

et pedum, eo quod densior in iis partibus cutis eruptio-

e nem prokibeat. Cui symptomati medeberis, si partes

'illas decocto emolliente diutius foveas, vel in aqua calida

ep. medic. cent.3.ep.29.

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\*detineas. I shall compare herewith the directions of Horatius Augenius, whose character I have already given.

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He having prohibited the bathing of the whole body, Hor Augen. de doth add. " sed non est eadem ratio in particulari febr. l.x.c.x. balneo, cum scilicet partes aliquaspiam extremas lavacro calido fovemus, nt ex illis duntaxat citius & facilius variola exeant, doloremque mitigemus, ut plurimum, fain insignem : hoc quidem paxtermitti non debet. Nam plerumque accidit, ut ex volis manuum & plantis e pedum variolæ non erumpant, nist cum maxima difficultate, et dolore: propterea expedit fovere eas partes e aqua calida aliquando simplici, et aliquando simul decoquendo flores Camomilla, aut Althea, aut violarum, e vel aliud ejus dem generis, quod fuerit ad manus. Hæce que antiqua extitit Arabum consuetudo; nam Rha= · Les ita scriptum reliquit: lib de Pestilentia, c. 8. Quod si in volis manuum expullulet, tu hasce ex oleo tepente, quo gossypia imbuta sint, multum refricato, & in calida aqua foveto. Verum si dolor non sedetur, nec pestis facile expellatur, tu sesamum perpurgatum ubi contuderis, & in lacte maceraveris, illico 'illinito, & in linteo per totam noctem alligato: dehincubi amoveris, & calente aqua foveris, rurfus illinito. Verum si velis, palmulus ubi contuderis, & in butyro maceraveris, vel in sesami sæce illinito: Siquidem hæc, & similia, cutem remolliunt, faciunt que ut e pestis facile excernatur & dolores cedant. fes. Que omnia judicantur mihi saluberrima in presenticasu, nisi quod abstinerem ab oleo, quia facit ulcus ipsum sordidissimum, ac sanatu difficile. Ego aufem nullum inveni paestantius remedium, quam fovere partes extremas manuum & pedum aqua tepida; vel decoctione florum camomille 6 de Althea. Quod si emolitre adhuc magis voluerimus, e decoquo simul semina fænugræci.

Kk

This

This Bathing is no less recommended unto our practife by the diligent and learned Forrestus, who speaking of an ancient Woman, (of sifty years old) which was fick of a Malianant pestilential Feaper. accompanied with the Meastly, (that came out on the fixth day) concludes the Observation thus; cc Huic tamen ( quod fere jam omiseram) ingens prue ritus & punctio in plantis pedum ac volis manuum adecrant; pro quo symptomate mitigando, quum maxime Forrestus lib.6 e eo & intolerabiliter affligeretur, ut se potius mori velle diceret, quamillum pruritum & punctionem ferre, justi ut pedes & manus continuo teneret in aqua calida Quo consilio pruritus tum puncto cessarunt, et melius per cutem in volis manum et pedum morbilli emergebant. Hujus rei experimentum notatu dignum ab ipso Astario Papiense medico accepimus, quod etiam Arcanum a · Nicola Florentino medico sui temporis in signi mutuavit : cum idem sic scribat cap. De Claviolis et Morbillis. circa finem, de corrigendis accidentibus eorundem. Si fuerit punctio plantæ pedum, aut palmæ manuum, ponantur dicta membra assidue in aqua calida: ut dicit Nicolus; & ego vidi multum conferre. Hac Blasius Astarius Papiensis in libello suo de curandis Febribus, qui adjuntus est praxi Gatinarie : que quidem experimento ab hoc symptomate molesto et gravi e nostra agra liberata est, et brevi, Dei nutu, evasit et in

obf. 42.

Herewith agreeth the injunction of Hoeferus, which Hoeferm Her. runs thus. " Vbi in variolis planta pedam et mas nus quod sapius fieri solet, gravi pruritu vexantur imeul. medic. lib. 7. p. 366. c mitte membra in aquam calidam, quod pro secreto babet edit. ult. Forrestus.

totum (ana facta est.

I need not any more Authors; what hath been faith is sufficient to justifie the practise to any intelligent person, and to disprove the Assertion of this Doctor;

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but as that is most untrue, so are the Reasons he gives no less vain. Whereas he is pleased to think that there is no such density in the skin of the hands, as is generally supposed, except in laborious persons: 'tis certain that some have it so naturally: as Scipio Nascica, Perrus Lau. who was therefore in raillery demanded by one, If he remburg. Colused to walk upon his hands? Moreover, though that disp. 2, sect. 14 which is called by Anatomists the Cutis be thinner in the hands and feet than in other parts of the body, yet is the Cuticula thicker there, and 'tis possible that even it may admit of a latitude in its native density and porosity in individuals, since 'tis acknowledged and hath P. Louremberg, been observed, that some persons have had a double will supra, for the seek, 13. Cuticula. It is also certain, that the texture of the Cuticle may be so changed, that those humors which issued thereout by way of insensible transpiration, may be at some times intercepted and lodged in the skin and under the Epidermis: and if so, Why may not that bappen in a determinate part, which does happen univerfally? In fine, 'tis frequently observed in Scorbutics and fuch as are faid to have an hot Liver, that they feel a troublesome heat in the palms of their hands, and foles of their feet, (notwithstanding that otherwise they have delicate and tender skins or bodies ) which introduceth a drynes in the Cuticle there: and can there be dryness without a condensation of the Pores? or can there be such an heat, without an obstipation thereof? And doth not such a condensation, dryness and heat indicate a befitting relaxation and humestation? How then cometh it that any man should deny the possibility of the Phanomenon in the small Pox (especially since daily events make it sensibly manifest) or refuse to practife what is indicated? I confess the old procedure of England is to anoint with unfalted Butter, or to bathe with Butter and Beer; which is conformable to the documents of Rhases: But you see the practise of France, Italy, high and low Germany, doth wairant the Kk2

use of warm water. De further urgeth, that upon the opening of the Pores by bathing thus, 'tis possible for the ambient Air to gain such an advantage upon the lick, as to repel the morbifick matter from thele ignoble and extream parts to the more noble, in the course of the sanguineous circulation. But since continual practise doth manifest ( as appears by the Authors cited ) that this doth not inevitably nor commonly happen. What is an effect of negligence in the Attendants. or unknown idiosyncrasy of Patients, doth neither difparage the Phylician, nor contra-indicate to the Remedy.

And so much for Doctor Whitaker; to whom the English are obliged for his good intentions towards them in that Treatife: but not for his performances: 'tis his latest Legacy to his Countrey; but in Legacies it often falls out that the Legatee receives no other benefit by the gifts of a Testator, than that he is assured he remembred him, and had some resentments for him.

nand, histor. med. 82.

where I say that letting of blood doth not, except by Accident, in some persons, produce fatness: I do confirm my Assertion further by the Authority of Esiph. Ferdi- Epiphanius Ferdinandus, who is his advice to an Italian Prince how to prevent excessive Corpulency, doth direct a Phlebotomy, and that to be repeated in both Armes. Neither do I remember any Commen. tator upon the Aphorismes of Hippocrates, who hath not directed that course for the extenuating of Ath-Holler in fect. letick bodies. This is a case in which the Germans 1, aph. 3 & are reconciled with the French and Italians 5 and Thriver, ibid. Wherein Profer Alpinus accords with Franciscus Sil-

Heunim ibid. vius de le boe : the former fayes, that fince frequ ut

Prosper Alpir. lean, or reduce them, that are otherwise fut, to such 1.14 ., C. 19 ., .

and large eruptions of blood do continue the Patients

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an habit; that even Nature seems to instruct an Artist so as to promote such like evacuations. And the Fr. Silvim do latter avows that immoderate growth of the musculous boepr. med. parts is to be prevented (amongst other accessional

courses) by often bleeding.

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I think there needeth not any more to be faid about the point: neither can it be justly doubted, but that if Phlebotomy had so usually produced this effect of fatness, it would have been reduced into observation by Physicians before 1650.

1. . . . . . ના મામ કરતે તે કહેલા છે છે મામ પ્રાથમિક હતા. Colors of the Manage Manager Manager Apple of the party of the second The transfer of the transfer o Marie Color Section 19 (4) 19 (4) Color Co THE RESERVE TO THE PARTY OF THE try ( 110 fici

Where I treat concerning Phlebotomy in the Small Pox; that it may be safely administred, even after that they begin to appear: It is justified by a multitude of Examples, one whereof lately was Sr. W. Roberts, aged above forty years ( as I am most credibly informed ) they did not come forth kindly, but most perillous symtoms did multiply upon him, so that his condition seemed desperate; yet upon the administration of this generous Remedy, their eruption was expedited, and all danger ceased, so that he recovered with ease. New Colledgein Oxford, in the year 1660. (or 1661. I remember not well the year) the Small Pox raged with much malignity, and proved mortal to many; but it was aparent that few (if any dyed) who were let blood; whereas on the contrary, those that were not Phlebotomifed died all; ( or generally) decease: This I was assured of by more then one, who were then present; though not being Physicians, they could not inform me of other particular Circumstances.

Concerning Phlebotomy in general, there is one Objection against it, that I think I ought to take notice of, since it proceeds Originally from some Virtuo &: And though one that hath urged it, be most grosly mistaken in his affertion that the Turks use no Phlebotomy, the contrary whereunto is not only evident out of Prosper Alpinus, but is confirmed unto me by the observation of my intelligent friend Mr. Denton of Q. Colledge in Oxford ( nothing being more frequent at Constantinople then to bleed upon every small occasion, and every Barber there being a Phlebotomist) yet I believe that in China and Japan the Natives do not practife Phlebotomy though the Europeans there do: Notwithstanding this, I do, not apprehend the force of the Objection as 'tis managed against Plebotomy, nor can I commend their judgement who from those Presidents ( which indeed are but one an= thority, the Japoneje being no other then a Chinase-Collony (would put us upon an Essay of practising without Vene section. Eor, the difference of particlar Countries and Nations (arising either from their Temperament, Diet, and Efficacious Medicaments and Method of Curing ) as to render Phlebotomy

\* Place this after folio 257.

Phlebotomy useless or dangerous there; whereas in other places there may be (nay 'cis certain is ) a necessity for a different procedure. I have already remarqued that at Montpelier, there is a greater repugnancy unto, and danger of Phebotomy; then at Paris: And the Presidents of the one Province doth not oblige the others: And though it be true that as in China, so in Languidock, Physick is in a good condition, yet doth it not follow that therefore it is in a bad condition in the other parts of France, Spain, or Italy, &c. 'Tis no le's certain that in hot Countries ( as well as here in Summer and Winter ) the method of carrying varies from what is to be pra-Etised in colder Climates: And as wounds in the Head and Leggs are in some places cured with much more easte Medicaments then else where: So 'tis no less manifest that 'tis irrational to conclude from the facility of those Cures in the places aforesaid, that those are impertinent and mistaken. who in other Regions proceed by a more tedious, circumspect, and vexations Method. Against that fingle instance 'tis almost the voice of Nature which we alledge: and fince the learned and Barbarous, Europe, Asia, Africa, and America (where no Combination or Traditional Doctrine derived from one to the others can be supposed ) do concur to justifie the practise of Phlebotomy against the Natives of Japan and China, let us reckon it amongst their sugularities (and founded upon motives peculiar to them) or amongst those Errors which their affect ation or ignorance hath particularly involved them in. To conclude, since the Miracles of their Cha or Te do not appear to us Practitioners in Europe to be true; though the use thereof The same Observation be so successful there; the cause thereof is to is made concerning be afcribed to Circumstances of their cliRhubarb, China-root, mate, and way of living, and accessional Therapeutics) so neither is there any argument from their Omission of Phlebotomy, that we may omit it bere; or that we should dare to imit at a them; but of this we may judge better when the Virtuoli receive from the West --Indies such an exact account of all Circum stances as may regulate a Phy sician:

### RELATION

OF THE

### Strange Symptomes

Happening by the Bite of an

# ADDER,

And the CURE thereof:

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### LETTER

TO A

Learned Phylician.

By H. S. Physician at Marwick:

LONDON,

Printed in the Year 1671.

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#### TO THE

# READER.

Lithough the insolence of some pretenders to Experimental Knowledge might discourage any Dhylician from contributing to the instruction of this Age; yet I have suffered my self to be prevailed upon so far as to publish this discourse. I might have enlarged upon it several wayes, and added besides some Observations upon Adders, the way of preparing Universimal fundry Cures performed by it, and the prepared self-thereof. But seeing that all we do of that kind doth but furnish a company of arrogant and ignorant Experimentators with subjects to oppose us, and undermine the Faculty; I am become inexorable as to that matter; and will

#### To the Reader.

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not be in the least instrumental towards the laying on of those Fetters which some men were preparing, not only for all Artisans, but all ingenuity This race of men who had deterand learning. mined to value and praise none but themselbes. and extended their Civilities so far, that all their mutual Elogies do import no more than a trade of smoak and ceremony, may now abate of their pride and censoriousness, and be satisfied that they are not necessary to the World, except one have an occasion to send to the East-Indies to know what grows in America, or to Southwales for an account of Nova Zembla, or the Countries subject to the North and South-pole: If all History and Antiquity be to be affronted most impudently; if false Relations concerning Salt-peter, Cider, Birch-water, &c. seem requisite: If Chimæras be to be proposed, or the Education and Religion of our native Countrey changed, there is some use for this Association, which considering their Armes, Projects and Deportment; alwayes puts me in mind of that Poetical Fancy described to be and a could be a

Heds Ken, om Den & Segnan, whom & xinalegi

Had I written according as they replyed,

#### To the Reader.

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I could have confessed my felf mad and less than a distracted Brain would never have chosen to desert Aristotle and Quintilian to imitate the fam'd Impertinencies of the Orator Posthumus, who being to plead a case about three Goats that were stollen, began an Harangue about Sylla and the Mithridatick Warre, and never touched upon the main Controversie any more then doth the illiterate Ecebolius; who what He designs I cannot tell by flattering Doctor J. W. and Mr. R. B. and terming an old Parliament Officer ( who hath the Canker of Presbytery, and the Conscience of an Olivarian; and who knows nothing by me, a stranger to him, though he hate me for knowing too much by him ) the Loyal C. E. D. And Letter p. 32. as great a Riddle is it, how this Renegado-Presbyter should dare to say, that there is not a Man born since 1936. less obnori= ous to the Church and Government. Will the generous Cavaliers endure this Ibid. from a Rump=Chaplain : Who confes= seth himself to have been a Preacher in those dayes, and never gave his Note for Eviscopacy (but preached against Christmass-Pies) till a year before the Kings coming in. Certainly he was a very fool, who could be in those dayes so ignorant of the con-

#### To the Reader

controverted Points; and 'twere an intollerable extravagance in any but a Uittuoso to write this now. But I shall call him to a particular account for all by the next Term.

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Man Adde

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### A

# RELATION

Of the strange SYMPTOMES

Happening by the Bite of an

# A D D E R

Honoured Sir,

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Have at last finished the cure of that Man who was so unfortunately bitten by an Adder here at Warwick, and because of the rarity thereof, I shall satisfie your desires in penning it.

Upon May the seventh, 1671. Joseph Denny a poor Man in Warmick (usually employed by me to catch Adders) walked out with his Brother to conduct him a part of his way homewards, and having gone about a Mile, he espied an Adder lying in the Sun, it being about fix a clock in the morning: he was willing to shew his Brother the curiosity of catching them, and how dexterous he was thereat: and though he had neither

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Glove nor Tongs with him (as not deligning that work on Sundayes ) he did notwithstanding cast himfelf near the Adder, and nimbly feiling on her Tail threw her from her covert, with fuch celerity that The could not bite him, and then haltered her with ease: A little after he espied another, but lodged in a place of more difficult access: In this attempt, which is performed with so much agility, it was his misfortune to seise upon the middle of the Adder, and before he could dising age his hand, she bit him on the inner side of his middle singer, just upon the middle joynt; yet did he dislodge her from the Covert, and took her. There appeared the impression of the two teeth, (though I speak as of a female, yet 'tis more than I know which it was, and usually they are males which have two teeth) but the pain was no other than one would feel upon the pricking of a

Being sollicitous about his condition, he took leave of his Brother, and perceiving a little blood upon the wounded place, he sucked that and the virulency (as he thought) out, and then spate it forth of his Mouth: then he washed the place affected with cold water, and finding the tumour and pain to increase (which was not such as happeneth upon instammations, but like that which precedeth a sphacelus, and was accompanied with a sense of benummedness) he hastened home unto me, whom he knocked up before seven a clock, and having only time to fignifie his condition, at the door, he ran to his own house, to enjoy the convenience of his bed, and the attendance of his Wife, who immediately repaired to me for directions; the whole Hand was extreamly tumified, and black, and the swelling began hastily to dilate it self towards the Elbow: He was seised with a Vertigo, vomiting, swooning, and a cold sweat, the violence

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whereof was fuch, that the drops trickled from his Head, asif his Hair had been wet with a great Rain, or water: where each Tooth had fastened, there appeared a blackish Pustule, or Blister; I appointed his Wife to make a strong Ligature above the tumour, at his Elbow; and having clipped the Blisters, to hold a redhot Fire-shovel as near to the part affected as he could endureit, and to give him a good draught of Viperwine presently: At her return she found her Husband not in a condition to speak intelligibly, his Tongue was swelled, and he faultered in his speech, as those do who have an Hemiplegia or dead Palse in their Tongues: Upon the drinking of the first draught of the said Wine, he vomited up abundance of bitter Choler mixed with Phlegme, coloured yellow, green, and blew; then she gave him another draught, ( at both times half a pint at least ) whereupon his vomiting and swooning ceased, and his speech returned to him: The Ligature had put an happy stop to the progress of the tumour, but the heated Fire-shovel produced no effect at all, the tumour and pains still increasing betwixt the wounded place and the Ligature: By this time I had got on my clothes, and hastened thither with a Chirurgeon: I found the man as cold as any dead Coarfe, and all over turned as black as a Tawny-moor, (though otherwise his skin was very white) and amidst the blackness of his hue, there was a visible mixture of greenish-yellow: I could not feel any Pulse in either Arm, and he complained of a palpitation of the Heart: I caused two Scarifications to be made on each side of the Finger above the joynt, as deep as the tumour permitted, and four more to be made on the back of the hand in the like manner: and upon incision the Reso did cut as if it had been of a dead body, there issuing neither blood nor any serous liquor, though he had his feeling there as entire as ever: Ilayed to the places

places a Plaister of Venice-treacle, and gave him in wardly above half an ounce thereof in some Viperwine: the operation whereof was not such as to beget any warmth in his body, or any pulse, or the least alteration in his Arm; whereupon I fent for some Angelica-water (being unwilling to give him more of the Viper-wine) and put into a draught thereof at least two drachms of Mixtura simplex, upon the taking whereof his Pulse returned immediately, and a warmth diffused it self all over his body, excepting the affected Arm, his cold sweats ceased, and a red colour came into his face, the palpitation of his Heart left him, and he became chearful: I repeated the dose. and caused Fire-shovels to be heated five or six times and held near the scarified places: hereupon he fell into a great sweat all over (except that hand) the affected part became hot, and the scarified places bled abundance of florid blood, which I suffered to flow without any impediment: where the Teeth had fastened there came forth as I took up the Plaister of Treacle two little pieces of black flesh of the bigness of a great pins head; and finding him in this hopeful condition, I went to Church, directing that he should not fleep (to which he was much inclined ) and that there should be given him for food only some Macebeer, with a little Sage and Wormwood boyled in it: and that he should take every half hourtwo or three spoonfuls of Angelica-water, with some ten drops of Mixtura simplex, and continue his sweat.

After Sermon I found him very chearful and well, no pain in his Arm but what seemed to proceed from the Ligature: whereupon I caused the Arm to be unbound, and washed with Aqua vitæ, and a new but gentle Ligature to be made higher, towards the Shoulder: and that he should continue the Cordial, and the Sores were dressed with a mixture of Venice treacle

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and Basilicon, and pieces of Lint dipped therein were put into the holes, whence the mortified stells had come forth.

After Dinner I found the man in the same condition wherein I had left him, only the tumour had diffused it self to the shoulder and Arm-pit, and sent pains as far as his right Breast: He had of himself two Stools, in which there was nothing observable: I directed the taking of his Cordial, and at night half an ounce of Venice-treacle.

But in a few hours after, there being no confiderable evacuation of matter, there was applyed to the Scarifications a Plaister of Burgundy-pitch and simple Melilote, equally mixed: whereupon there issued forth in good quantities a yellow ichorous matter, the efflux whereof was continued by the application of Basilicon and Venice-treacle: where the Bite was, the Sore grew foul, and thereupon that was dreffed with Basilicon and Agyptiacum mixed: And thus the Cure was profecuted to the end, according to the difcretion of the Chirurgion: only during the first and second day, the violent tumour of the Finger, Hand and Arm continuing (notwithstanding the evacuation by Scarification, and diffusing it self ) I did give way to the applying of a Pultice to the Arm (from the Wrist to the Elbow) made up of Oatmeal, green Betony shred, and Milk, to which was added in the end a little Oyl of Roses, Oyl of Mallows, Sheeps Suet, and Oyle of spike: the which Pultice had been tryed in Warwick upon the like case, when all the discretion of a knowing Chirurgeon could not secure the like tumour from an imminent Gangrene, the pain also dilating it self, as in this case: and to the tumour on the back of his hand was applyed green Wormwood shred, and heated as hot as could be indured.

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Being called out of Town, at my return the next day I found the tumour and pain much abated, the Man so well as to sit up, without any ill symptome. only he had made no water fince the Bite: whereupon I appointed him to take once in two hours a drachm of Sal-Prunelle in his Mace-ale: and at the first dofe he made much water, but it was of so deep a red, that his Wife imagined it to be blood: the next was highcoloured, but on the next morning I found its colour to be natural: The tumour on Tuesday being almost gone, and the pains every where vanishing, I appointed the Chirurgeon to keep the Scarifications open, and to order them as common Sores, but to continue to the bitten place (both holes being run into one) the Bafilicon and Treacle: and being willing to preferve my Venice-treacle, I appointed he should take a clove or venenis I. 6. 1200 of Garlick every morning which, howfoever c.1.p.335,336 it be commended in this case, did produce such a ex Serapione. pain in the Sore, that I was forced to alter it for some vamentum en Mithridate, to be taken every night and morning; in comessione The same week he was so well as to take me ( but enim curatio with more caution) twenty Adders: and now, after three weeks time, the Sores are all well, and not any tumour remains, he being purged only; in the conclusion, with the decoction of Damask-Rofer. 10 Avamua 1

But after a few dayes a new and strange Symptome appeared, all his Back, Breast and Belly became spotted with yellow spots (of different Figures.) resembling exactly the colour and bigness of those of the Adder which bit him: the rest of his skin being white: and this continued from about the fourth day till now, with this discrequacy, that in process of time from rellow they turned brown, and so by little and little disappeared: some remains thereof are still vilible; but he is perfectly well, (excepting a sense

Vide Santem Ardoynum de

of benummedness in that and the two subsequent Fingers, which feems to shoot from the head of the radius at his Elbow) and hath been on mowing several times; and is more corpulent than ever before: And that part of the Skin on his Back, Breast and Belly, which was so spotted, now peels off, and a whiter one succeeds in its place.

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Having given you this account of the Accident and its cure. I shall add some remarks thereupon.

It may perhaps be expected that I should have applyed the Head of the Viper unto the wounded place, or some sliced Pigeons or Chickens: but the Accident being proceeded so far, I durst not adventure the Patients life upon such Remedies, as if they proved ineffectual might frustrate the use of other more generous Medicaments; it ad an is given see, or wester put

The use of the heated Fire-shovel you see answer'd not those praises which Mr. R. B. honours it with: Mr. R. B's. as little doth Mr. Charas attribute thereunto, in the usefulness of cure of that unfortunate Gentleman whom He reco- Experimental vered. I add, that the Remedy is older in England part, 2: p.49, than Mr. R. B. and his Friends: I have read in sun- 50. dry ancient Receipts both Printed and Manuscript, Mr. Grand Vipers, c. 8. where for the sting of a Wasp, Hornet, Bee, or Adder, the application a Coulter red hot, as near to the affected place as possible, is advised: and certainly the efficacy of the heated Coulter must be greater by reason of the intenseness of the heat, then his thin Knife or Spatula can promise. Let us hence learn, that though the Virtuosi do write, yet do not we improve alwayes in nseful Knowledge: and if at any time the Medicaments of the Ancients do fail our expectation; those of the Moderns (I wish they would not upbraid Mm 2

us with old Remedies) lye under the same uncertainties.

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I did not canterife the place that was wounded. because it was so near the ligaments and nerveous parts; besides, I had no great opinion of its successfulness, for the venome having diffused it self so far, could receive no stop by such a cautery: I add, that when Baccius had so cauterised his Apothecary, who was bit in the Thumb, and that within half an hour after the bite, notwithstanding that, he fell into most virulent vomitings, and other dangerous symptomes, and had in all likelihood died, had not he been carefully attended and followed with Antidotes forty dayes: What soever is said of such cauterising, it strengthens the part, hinders afflux of humours, and their efflux also, whereby the venome is continued in the Body; but 'tis our intention to evacuate it by the place bitten. as every man knows.

Andr. Baccius de venenis, pag. 16.

In the Cure it is observable, that the Man principally attributes his recovery to the Viper-wine; though I much doubt whether it would have been so effectual, had I not uncessantly administred unto him the Mixtura simpla, or until I threw him into a sweat. However you fee that there is no fuch absolute necessity of the Volatile Salt of Vipers, that Mr Charas so much magnifies: my cure was more expedite by much than his. though the Wound were more dangerous: and he acteth the Virtuoso, not only in stealing that preparation of the Salt of Vipers from the candid and learned Vide Zwelfer, and never mentioning him, but in boafting so much of a Remedy which the Galenists may want cop. August. without any prejudice, and which in many cases I have found far inferiour to Viper-wine, and of no other effect than what you may expect from the Volatile.

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volatile Salt of Harts-horn fixed in the like manner.

As to the symptomes which befell this man, most of them are taken notice of by several Authors, though all that are bitten do not suffer all the same Accidents: the idiosyncrasy and anger in the Adder, and the divers constitutions and apprehensions of the Patients creating fuch variety of Accidents: but in many things did our case differ from what is related by any one Physician, as you may see in Sennertus, and Santes Ardoynus, Paraus, and Doctor Read. The rising of the black Pustules, and the Stoppage of Vrine seems to be de-Santes Ardonn. figned by Sennertus and Santes Ardoynus by their devenenis, Difficultas Vrina. But how far it was from any lib. 6. c. 1. inflammation (which some speak of) you may judge by my Relation, which favoureth the Opinion of Galen, Mesve, and Aaron, that the poyson of Vipers is cold.

Upon his fucking of the Wound, and the evilconfequents thereof, it is observable how unsafe that direction of C. Celsus (Vesalius, Forrestus and others) is, C. celsus me. who advise that a man should suck the bitten place dictions. In Amatus Lustanus you will find a relation of one who dyed by fucking of the place bitten by a Viper : Arm tage. The same is avowed by Matthiolus, as Paraus re- contiguancy cordeth the story out of him, and instanceth further change land, in a Patient of his own, who was much endangered by e 14, 2, by sucking, upon the bite of an Adder. It is also dill liked by Epiphanius Ferdinandus.

I forgot to tell you one Accident, and that was on the third day, when he was taken with fo great a pain in the bottom of his Belly towards the Peri. næum, that he (to use his own expressions) seemed

Tormina ex intervallis excruciant. Parata chirurg. 1, 20. C. 16.

to be torn in pieces thereabouts: of which simptome. I have not read any thing, unless it be that among it the confequents of such Bites the great Paraus doth fay, that Torsions in the Bowels do by fits afflict the Patient. But this happened after that he made water freely, and without any pain but what he felt by way of debility in the Muscles subservient to that evacuation.

I might prosecute the Discourse so as to discourse about the venome of the Adder, wherein it confifts: but much hath been said on that Point by Zwelfer (out of whom choras doth steal much of his Book) and others.

Gs'en. de' fimpl. 1.10. Prosper Alpin. med.meth. 1.46.4.

That a Viper is not poylon, when drowned and putrified (if I may fo callit) in Wine, appears by the Relations of Galen: And Prosper Alpinus saith the same of those snakes which the Italians call Anzas: and daily experience sheweth the truth thereof; nor do I believe that any ever reaped any inconvence from Viper-wine made in that manner, except it were by accident, though for some Reasons I do not follow that way. I have drunk of the Wine made fo, even when I have angred the Adder before I put it in. I have tasted the Gall and that yellow juyce which lyes about the Teeth, without any hurt: the yellow juyce did to me seem insipid, or a little sweetish, if it might Mr. Charas of be said to have any taste: Mr. Charas sayes he found Vipers, seet 8. the taste of a Salvia or Spittle sufficiently flat, and approaching enough to the taste of oylof sweet Almonds, in the yellow liquor of the Gums. Herewith agree Amatus Lusitanus: though Zacchias say that his Apothecary tasting thereof found it to be Saporis in-1.2.tit, 2.qu.7. spidi cum ponticitate: And it seems to me indubitable, that the venome of the Animal proceeds from its in-

Zacchias qu. medico lega lest. 10.

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dignation: (which opinion Poterius, Helmont, and Zwelfer proposed before Charas) and that there is a virulency in the Wound appears by the evil accidents upon sucking thereof: Yet must I note, that Vestingius saith of the Teeth, that the posson doth formally lodge there, and that the Teeth being taken and rubbed upon any Weapon do give it an impossoning quality, if any be wounded with it.

But I shall detain you no longer, though I could shew some defaults in *Charas*, and illustrate the History of Adders, by Observations upon the several Animals into which I have suffered the Skins and Livers to putrisse: But I shall conclude with the profession of being,

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SIR,

Your most humble Servant

Henry Stubbe.

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# PREFACE

To The

# READER.

Bout Christmas, I was earnestly pressed by some Perfons of Great Learning, and of no Common Repute, to make some Reply unto---- G. Thomson; not only to chastise his Insolence towards me, ( for which be had made me Sufficient Reparation by his Postscript against D. M.) but to punish him for the Indignities he had put upon my Faculty. Having

finished that Treatise, I was importuned to write something about Phlebotomy, since he had made such a clamour about it against the Colledge, and that this Point had not been handled by the Adversaries of M.N. how necessary soever he had rendered it by the Publication of Medela Medicine. The Request seemed very Just, but how I should be able to perform the Undertaking to my own Satisfaction, or that of others, I knew not : For this Age seemed so to have charged the Methods of Ratiocination, & so altered the Principles of Physick and Philosophy, that for a man to argue as our best Writers do, were to subjett the Case to all manner of Scorn and Contempt: And how I (hould reduce the Phanomena which are undeniably consequential to Plebotomy, under one plausible Hypothesis, I did not well comprehend: For I had no Collections upon the Subject ( indeed I never made any in my life upon any, but remit all to the strength of my Memory, and that now declines ) nor had I ever framed to my self any Idea of things that might accomplish me thereunto: Though I have for sundry Years been contriving some

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Materials in order to it : And had seriously gone about it, but that my Contests with the Virtuosi have diverted me, and the Troubles and Dangers they have ever since alarm'd me with ( even to the hazard of my Life, and Fortunes ) made me unwilling to begin what I should never have opportunity to conclude. However, since they were pleased to have some Opinion of my Abilities, and promised to acquiesce in what I could do under so little Leysure, as my Pra-Etice affords me, and so great Disadvantages as my Disfurnishments created me; I did submit to the Task. And thou hast here, Reader, what my Thoughts could Recollect and Digest in the Space of a few Weeks, and those Interrupted with other businesses, amidst so stender a Library as mine is; the Defects whereof, I could not supply any wayes, many of the Books which I would have made use of ( and which I lost by the late Fire ) being not to be found in any Library, or bought in England: So much decayed is the Trade of Book-felling, together with the present Declination of all Learning. If, to have refuted my Adhersaries, be all that thou expettest, I have done it perspicuously, and fully: If thou look it for a compleat Hypothesis in defence of the Physicians Practice, I acknowledg the present Treatise to be deficient. For, as to the Rature of the Blood, though I have made many Estays in reference to the discovery thereof, yet one Inquiry hath so multiplied others, and there is such a variation thereof not only in Individuals, but according to the Seasons and Seasonableness of the Years; that I am better able to convince others of their Errours, than to demonstrate other Principles: Something I have done in order thereunto; and some things I could have further prosecuted, but would not: For I have no mind to instruct others too far: Let them study (or, to speak in the Diale Et of my Enemies, let them Read Index's ) as I have done: To what purpose should I add strength to those Fetters which are preparing for my Faculty & Or prejudice Learning, by qualifying a fort of Ignorant, Idle, Talkative-Infolents, to maintain Conversation in any Company! If I could see that the Parliament would, in pursuance of the Prudent Laws made by our Ancestors, regulate our Faculty according to Real Policy; and the Precedents of the best Governments, I would not only Contribute all I could to the publique Utility, but propose such a Designe. as should add more to the Advancement of Useful Knowledg, and that Learning, which is necessary to the Support of this Monarchy, as no Age did ever parallel; which should be factle, Drauscable; and the Effects thereof, should be more Willible in three Pears. than theirs have been, who boast that they have done more in fir

Bears, than the Aristotelfans in more than thrice so many Cen-But let these men have their Desires; Let them be Plus ultrap.8. toaded (according to their own Overtures) with all that contempt which is usually the Reward of vain and unprofitable Profectors.

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I cannot but look upon it as a singular Act of Providence, that I should fix upon the present Attle of this Book; and direct my Cenfure against the Lord Bacon, and those that pretend to be Followers of Him in Philosophy; seeing that it hath happened so, as that Ocebolius Olanvil hath made use of that Great Rame, to excuse bis Errours and Insolence; and thinks it a sufficient Apology, If In his Letter he can shew that the substance of his most Obnoxious Periods and to M.S. P.8. Passages, are to be found largely, and often insisted on by so Great, Learned, and Wife a man, as my Lozo Bacon. Which defence, though it be no other than he might make, who should tender us a wrong Account of the Sweating-Sickness; or avowe that Coffi were Narcotical; or obtrude upon us a thousand Fallities out of the Philosophical Writings of that Lozd, and Lawper; yet doth it seem requisite that I should say something more in reference to his Authority, lest, what imported little in the Age when he lived, should be prejudicial, and destructive to that which succeeds. I will not deny that he was a man of good Literature, and great Eloquence, accompanied with a popular, and florid way of Expressing himself: By Profession, he was a Lawper, and the principal part of his Studies were bent that way; and although therein he were surpassed by others, yet 'tis there that his Credit must seem wost Authentick, or no where: We acknowledg no Chancellours of Philosophy, Philosopy, Pedicine, &c. Nor do Artists suffer themselves to be over-swayed by the judgments of men, that ar eeither totally unacquainted, or have but transitorily, and superficially looked into the Subjects they treat of. No Law ever made him our Dictator, nor is there any Reason that concludes him Infallible: Nay, it is manifest that he was frequently deceived. And, since the Gardiners have protested against him, and see M. Austens that justly: Since the Chymists, and the Mathematicians disclaim Observations him: Why may not a Physician refuse to be tried by 11m ? Not on his Natuthat this doth introduce a Comparison of Abilities in general, but ral History. of knowledg in particular Cases; and the World hath always allowed, that A Person, otherwise Ignorant, even a Fool, may know more in his own House, than a Wise man doth in another's. Besides, I hope my Adversaries will permit me to retort upon the Lozo Bacon, what they (though most injuriously) urge against Att-

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against Aristotle at the end of Scepsis Scientifica. p. 90.

Kotle: And to propose it to their judgment, " Whether twas like-See the Letter " ly that my Lord Bacon was so far beyond other Scholars in his " Intellectuals, as these latter Times have presumed; when He " came so far short of most of them in his Morals? I believe "there is a near Connexion between Truth and Goodness, and "there's a Taste in the Soul, whereby it relisheth Truth, as the " Palate Meats; which sense and gusto vice deprayes and viti-"ates. So that, though Wit may make the vicious cunning Sophisters, and subtile Atheists; I doubt, seldom the most exercised

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Philosophers.

(a) See the Stocles in Ca-Book of Diogenes Laertidition of Menagius, p. 41. on Laertim, and Fon Sius. Uti fupra, p. 91.

I shall not prove this Charge by alledging Writers who were not Born till above many Centuries; Nay, above a thousand Years after: Such is Suidas, (who is very Fabulous) and S. Jerome. Nor impose upon my Reader Authors who write quite contrary to what is to be averred; as (a) Aristocles, and Arrian: Nor represent as Words of Ari- befitting Witnesses, a company of Buffoons, and notorious Lyers, saubon's Notes such was Timæus: But refer you to the Common Opinion upon the fifth about Passages within the Memory of man, and to his Accusations in Parliament ( which are Recorded) : and fince He durst not stand the Trial, but cast himself upon the Mercy of the House; his conus: In the E- dition admits of no Ulindication; and I again resort the Words of Ecebolius upon him: "Thus then you see an ill Character of the "Lord Bacon's manners from dis-interested Authorities; on con-(b) See Mena- "fideration of which, 'tis to me matter of some Wonder, that the gius's Notes " Memory of the vitious should be so bleffed, and his Authority " fo Irreproveable. \_\_\_\_ But to pass by this Argument, which I confess to have been Weak, when first urged; but is Strong, when 1 2.c.2. p. 125. it is retorted: I do say, that the Credit of no man is such, as ought to sway us against manisest Experience; and if Aristotle teach me that what is most Rationally insisted on, if it be Densually refuted, cannot be adhered unto without an Imbecillity of Judgment: I am to be pardoned, if I fubmit not to the Inartificial Argument of my Lord Bacon's Authority, when his Assertion is apparently Falle: And so it is in more Cases than that of the Sweating. Sickness. So it is in that Saying of hir ( so pressed by Ecebolius ) that he never names any ancient Author, but to Confute, or Reprove him: For he cites an hundred Authors in his Works by way of Illustration; makes an Honourable mention of Hippocrates, and no where reproveth him. Not to relate the Altar and Inscription which he erected to Plato; and other Instances that might le made of his mentioning Ancient Writers in places, where he no may disparageth them, nor Animadverts upon them. So it is in the

Uti fupra, p. 84. Aistorel. polit. 1.7.6.4.

#### A Preface to the Reader.

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places alledged now by Ecebolius. For if it be evident, Aristotle did resolve his Philosophy finally into Sense: If it be evident, that Aristotle did propose, and pursue an History of Pature (which was carried on by his Successors, as Theophrastus, Erasistratus, Herophilus, and others ) and esteemed no Universal Propositions to be true, but what are verified in every Individual (which is the Foundation of all he Writes about the Art of Reasoning: ) If it be evident that the Glorious Body of Physick which we now posses, was principally erected upon his Physiology and Deductions ( which be that Reads Galen, Mercatus, or Fernelius, may see ) and our Practice is not only regulated happily thereby as to known Difeases, but directed in order to the Discovery of New Medicaments, and the Cure of New Diseases, (not to mention the Natural Improvements): If these things are evident (which no Scholar can denp) what Truth can there be in those Citations or Aphorisms of my Lord Bacon, so much enforced against me by Ecebolius in his late Letter? What doth he bring but fresh Testimonies of his intolera- P. 9. 10. ble Impudence and Ignorance, and create new Umbrages upon that Lord, when he recites an egregious mistake of His? "Si----"id minime eventurum fuisset, quod per annos bis mille jam fieri " videmus : Nempe ut Scientiæ fuis hæreant vestigits, & in eo: Nov. Organ. co bem fere Statu maneant, neq; augmentum aliquod memora- Aphor. v.74, "bile sumserunt; quin potius in primo Anthore maxime florue-" rint, & Deinceps declinaverint. This being said of the Scien. ces in general, is an Insufferable Untruth: For who knows not the large Improvements that the Mathematicks received by Euclio (who lived after Aristotle) and others, Who had then advanced every part of the pure and mixt Mathematicks long before the Verulamian Philesopher writ this? Who knows not, how Herbary had been improved by Theophrastus, Dioscorides, the Arabians, and other Peripateticks, in like manner? Who can deny that Physick (in every part of it) and particularly Anatomy was improved by Erasistratus, Herophilus, Galen, Vesalius, Fallopius, &c. before the Lord Bacon ever sucked? And what accessionalls had Chymistry received by the cultivation of the Aristotelians, before that the House of Solomon was dreamed of, or the pew Atlantis discovered? Let us therefore not be concluded by the Aphozisms of this Lozo: Let us not take his Assertions for Legitimate Proofs: Let these insulse Adherents of his buy some Salt, and make use of more than one Brain when they Read Dim: And let us believe better of the Ancients than that their Physiology advanced nothing; or that Their Dethoos of Science are so unfruitful, as

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in so many Centuries not to have brought the World so much Dracical beneficial knowledg, as would help towards the Eure of a Cut-finger. Because the petulancy of my Adversary doth enforce me thereunto, I do veclare, that the Lord Bacon did steal the principal part of his Bobum Daganum out of Ariatotle, and only disguised his Suggestions in a new Mode and Dress; As he likewise borrowed the best Rudiments of his Asbancemint of Learning from Ludobicus Aives de causis corruptarum Artium; What was his House of Solomon, but the Ectype or Transcript of the Peripateticks establishment at Alexandria in the Museum of Ptolemaus Layides, and Demetrius Phalereus ? Tis by his great Example that the Baconical Philosophers are such Plagia. ries, and Relators of false and defective Experiments; Contemners of the Ancients, and opinionated concerning themselves. The only judgment I can make of my Lord Bacon's Altings, is. that being so Flagitious, and so Ignominiously degraded: He determined to redeem the Infamp of his past Life by amusing the World with Rew Projects; and to gain a Chancellour (bip in Literature, when he was excluded from that on the Bench: And to revenge himself of the Nation whom He had exasperated, by diffusing Heresies in Philosophy, and creating in the Breasts of the English such a desire of Novelty, as rose up to a Contempt of the Ancient Ecclesiastical and Civil Jurisdiction, and the Old Government, as well as Governours of the Realm: And the Root of all our present Distractions was planted by this

The mention of Ecebolius Glanvill seems to give me-just occasion to digress here, and to give my Reader some Account of his late virulent Books against Me. I gave him no Occasion for to Write in that manner; nor did I Transgress the Act of Indemnity and Oblivion to depreciate the Virtuosi, though they were much more obnoxious than I: Whereas He, to accomplish a Revenge, doth begin with the Breach of Divine and Humane Laws: The Penalty in the Act of Oblivion determined after three Years; but the Command is no less than Atter Dblivion: So run the Words of the Act. The Rectour of Bathe tells me that, "If I think to in earnest, the Law is open; I may take my Course. But this Divine might have known, that there are more Injuries, more Sins, than the Temporal Laws prescribe a Punishment for: And that the Obligation of the Law doth not depend upon it's having a Penalty annexed. The Commandment of the Sabbath was given, and the Violation thereof, a Sin; and he that had gathered Sticks

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thereupon was apprehended, and put into Ward, till God should determine how he should be punished. Is not this a fit Person to be Numbers 13. entrusted with the Cure of Souls! But to pass by His 3 mplety, 32, 33, 340 and proceed to his Indifcretion; Is it not extraordinary, that He (bould upbraid me with adhearing to my Patron out of Bratitude. when He complied with the Same Parties out of Interest, and to advantage Himself? I could trace the Saint from Excester-Colledo to Mr. Rouse's; and the L. W.'s, and from the Rota of Mr. Harrington, unto the Lord Mayor's Pulpit, when he Preached the Sermon about Catholick Charity. What Prayers, what Graces he uttered in those Families? 'tis easie to conjecture that they transcended a Negative Loyalty. But as for his Abettours, I have seen one of them Sneaking at Sir H. V.'s. He was Tutour to his Nephew, and Intelligencer during all the late Usurpations. He faith, He blames me not for Writing against Doctor J. W. but for treating him so opprobriously. I answer, that I gave him. such Language as his Ignorance (in those Questions) did deserve: And I refer my felf to all the Royallists, if any Language could be Malicious and Scurrilous, which was used against the Sub-Scribe to the Tribe of Adoniram, who had been an Active Preacher in the first War, and Decyphered ( besides others, to the Ruine of many Loyal Persons) the King's Cabinet taken at Naseby, and, as a Monument of his Noble Performances in behalf of the Caule, deposited the Original, with the Decyphering, in the Publique Library at Oxford? As for Mr. R. B. who writ the Holy Common-Wealth, and the Key for Catholicks: He having reviled on; and belyed my Patron, ( as he did also the Church of England ) and refuted his Notorious Lyes, and discovered the Ignorance of a Man who (till then) had in the Nation some Esteem for Learning; If this was not a confiderable Service to the Bing and Opiscopacp, I under stand nothing : And though I did not intend it as such (which I yield) yet they are so generous and just, as to distinguish betwixt those who (though Undesignedly) served them, and those that did all they could to Destroy them. The Key for Catholicks is Unrepented of; and I recommend that Book to the Perusal of the Episcoparians, and let them judg whether He that writ it, or He that opposed it (though in defence of Sir. H. V.) and pleaded earnestly for an Indulgence towards them in the Liturgical way, deferved tice that the beff at their Hands? \* I fay, I could not abute Or. R.B. in those Pia Philosophia,

P.5.6.

\* Take no-

fater) Discourse against me, came out beth together, and were sent to me Bound together : So that I may be excused for mixing the Elogies bestowed upon Mr. R. B.

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Dayes: And I cast my self upon the Revallits for my Judges: What Tay yee Gentlemen ? Was De the only Man that spoke Sense in the Age of Non-sense? Was He Reverend, Learned. and Ingenious ? But, What is it that Ecebolius doth purpose to himself? Would He overthrow all our Laws as well as the Act of Oblivion? Why doth He now care se this Party so highly! He adds. That 'tis to be hoped there are not any more Criminal than I on this side Charing-Cross, Tyburn. or Tower-Hill. Is not this all one, as to bid Derrick take the Authour and Approver of the Bindarick Doe! Is it not to Sentence unto Death the Actours of the first War ('tis well bis Patron Mr. Rouse is dead ) the Trooping Divines, the Decipherer of his Majestie's Letters, the Followers of Oliver, and King Dick, not to mention others? The truth is, D most generous and candid Royallists, being a Booz Boy at Westminster-School (as my Reverend Master, Dr. Busby can tell you) aged about Ten years old ( there are but few years difference between my Age and that of Ecebolius) Sir H.V. casually coming to School with Dr. Osbolston, did take a kindness to me; and frequently relieved me with Money, preferred me to be a King's Scholar first, and afterwards to Oxford: At such times as Ihad convenience, I had the liberty to refort to his House, and fill that Belly, which otherwise, had no Sustenance but what one Denny could purchase for my Dinner: I had not any Breakfast, except I got it by making some bodies Exercise. My Mother had two of us to maintain by her Needle at London, after we had Travelled on Foot from Leverpool thither. I was not a little obliged withe Charity of my good Master, for Money to buy Books, and Cloathes, besides that He gave me my schooling. I was sent to Oxford after the late King was Beheaded, being aged about Seventeen, and very Little of Stature. The Quarrels, and Animosities growing. high betwixt the Presbyterians and Sir H. V's. Friends, I sided with him. Was it, Generous Sirs, any Faction in met or the Testimony of a Factious Spirit to oppose the Presbyterlang : or. was it a Crime then to ferve my Patron? Twice I with Tears im plored the Protection of Sir H. V. and C. L. to fave Westminster-School (that great and known Seminary of Royallists) from that Destruction which the Presbyterians, and Independents menaced is with: And my Master shall witnesse how I interceded for Dint. \*Twas I brought the Engagement down to Oxford ( though I took it not; being an Under-Graduate) and having got Doctor S. F. and Doctor R. to be turned out, I saved the remains of the Cavaliers in Christ-Church, and Queens Colledg, and gave rhem

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them an opportunity to live securely, and Educate others in their Principles. All the retribution I could make to my generous Patron, for gratifying a poor Stripling, and permitting him to be Grateful, was, To promife, if ever I were able, to ferve him effectu-Which I did ( maugre the Power and Greatness of the Presbyterians) in opposing Doctor J. W. who was then the Glory and Pride of that Party. Afterwards, no terrifie the Dresbyterland, and make them more Complacential, I writ those so Invidious Queries; yet withall, protested that they contain no Menets of mine. (for I knew they were not defensible against the Learned and Indictous Episcoparians: Though they had force and address enough against the more Ignorant Presbyterians ) but were writ to excuse these who had made those to be their Assertions, which were mp This I declared in the Preface: yet would not Ecebolius take notice thereof, to the end I might seem more Dotous, and that I might be upbraided with contradicting my felf: Which I am very glad I doe: And that my Principles ( if those be them ) are as much changed as my Hair. In fine, (for I would not be tedious about these Impertinences) what soever I writ, was against the Presbyterian Clergy, the Presbyterian Univerlities, the Usurpations of Dlivet and Richard. Against his Majesty, or his Father, or the Church of England, there is so little expresly, that less could not be said by Dne of that sive: And to have had any one so Active in those times, and to do what I did, tis not to be doubted but his Majesty would have dispensed with it, and acknowledged my Serviceableness. Could I but assume the Impudence of those Cromwellians and Renegaboes, and tell youRenegadoes, I did all this for to facilitate the Kings returne, how plansible would it seem? But though I knew the tendency thereof, I fcorn to say, This was my Deligne: I say, I ferbed my Patron therein; and bore no Malice to the Royallifts, who were then Ejected out of the Universities, & all Churches. Had I not contributed to those Imbroylments, perhaps things had not been in the same condition as they are in now; And Ecebolius (as well as others my most bitter Adversaries ) had been Paping. and Dzenching, as before: I prepared those Algerines to repent, and to Conforme; and pou may, if you please, put the Latitudinarians ( upon whom neither Religion, Morality, or Generofity have any Obligation ) into a condition to betray Dou again. In the mean time, Ibeseech you, Generous Episcoparians, not to make your selves Instruments for their Rage, nor suffer them by your Deans to revenge upon me the Affronts done to the Dzesbotert-

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ang. Oliver, and Richard Cromwell: Think not that they love you, or the Government: Nothing is dear to them but themselves: Nor are they swayed by any thing but Interest and Ambition: They attend to Opportunities, not Principles; and value not Right, but Fortune and Power. If they make it a Malignity of Temper in me, to have reviled (In those dages ) Doctor 1. W. and Mr. R. B. If it be Eppocrific to defend the Monarchy, Religion, and Universities of this Nation: What Bottom Do pon fand on ? Or. How do you expect to be farbed? Mr.R.B. in his Saints everlasting Rest, (not to mention his Key for Catholicks ) hath transferred Mr. Pym, and Hambden into Heaven: And Ecebolius tells you, that 'tis to be hoped, that on this fide Tyburne there is not one whose Crimes have transcended mine: Thus'tis made a moze hantous Fault to have opposed the Rigio Dresbyterlans, Oliver, and Richard Cromwell, than to have afted in the First War, to have brought the late Bing to the Block, or to have cut off his Head. Sir H. V. was no Regicide: I was not concerned in all those times: I never made any Application or Poem to the Renowned Prince Dilber, nor infinuated my self into the Court of him, or his son. When it pleased Almighty God to restore so happily his Majesty; I made early and voluntary Applications to the Bishop of Winton (that now is ), for his Protection in my Retirement, assuring his Lordship of an inviolate Passive Dbedience, which was all-I could or would pay till the Covenant were renounced: He hath it under my Hand, and higher streins than these. I need not recite either the Kindnesses of that Reverend Prelate unto me, or his Majesties Favours at my going to Jamaica: 'Tis enough to say, that I was not deceived in the Opinion 3 always had concerning the Generolity of the Royalists. When the Restoration of the Bishops, and of the Church of England had revived me; at the first motion of the aforesaid Right Reverend Father in God, and at the first opportunity I ever had in my Life, I received Confirmation publickly at his Bands: And immediately took oceasion to publish a Treatise of Bartholomæus Casa paraphrastically tran-Rated: And in the Dedication thereof, to that Loyal Gentleman Sir Ch. Littleton declare; "I have, at length, removed all the "Umbrages I ever lay under : I have joyned my felf to the Church es of England; not only upon the account of it's being publiquely imof posed ( which, in things Indifferent, is no small consideration : se at Llearned from the Scottish Transactions at Perth ) but because

is the least defining, and consequently the most comprehensive, e and fitting to be National: Wherein any unprejudiced Person Have my Ad-« (not resolved to mistake particular mens Actions or Opinions, versaries? of for Church-Principles and Errours) may observe all those Cir. hath Mr. R. B. comstances to continue in order to the promotion of Sober Piety, much in Print es which the Angels proclaimed at the Birth of the World's Savi- yer? et our, viz. Glory to God in the highest, Peace on Earth, and "Good will towards men. In fine, it bears the Impress of what es is Ancient and Apostolick, as well as True: I always had a Re-" verence for the Primitive Christians, and it is with a Sincerity " not unbecoming them, that I thus declare my self. Thus did He unrequelted declare himself, most Generous and Candid Episcoparians, who pleaded for pour Toleration, when you were in diffress, and when his Adversaries were Praying, Preaching, and Acting against you, and Mr. R. B. writ his Key for Catholicks: Thus He declared three Years and more, before Ecebolius published his Sermon upon the kings Purvet: Trus He declared, without any Hope of Advancement, or other ends, than to live as became a Beaceable and Quiet Subject, and Son of the If after all this; if after the taking of the Oaths of Allegiance and Supremacy, and the having done all that the King and Church required, I have not yielded you sufficient satisfaction; pardon me, if I say I understand not subat is necessary to the Civil, and Ecclesiastical Peace; and you do exceed the Precedents of any Hiltory, or any Policy, which I am acquainted

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I think this Discourse to be the most pertinent Answer I could give to all the Railing of my Adversaries; without descending to Particulars, the Prosecution whereof ( and even Repetition ) would seem tedious, and in these times unseasonable. I now descend to other Passages in Ecebolius. He said, my Head was Redihot. By the difference of the Character, who would not imagine that he reflested on me as Red: Beaded & He hath now varied the Letter. and saith Red bot; is not this the Sophistication of a gross Lye? He adds another: "If I had said, your Head was Red, I had "not been such a Lyer neither; it was a direct Carrot, last time I " faw it. - It never was of other Colour than of the pale Hungary Gold; and in time altered to a Light Brown: 'Twas such as the Ancients did ascribe to Apollo and Mercury (though very thin) and as the Wisest Nations have, and do desire to imitate by Artifice. But his words were, his bead is Red-hoe. Which is

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a I pe. And if it were not, so much to be faid for that Colour! that I should not be ashamed thereof: Besides that some of the R.S. must suffer in the contumely, if it be one : . Yet I neither take that. or the other of Balo-Bate to carry any thing of Ignominy in them. He had also said, " In testimony of his great Love and Devotion to the King, he thus subscribes the Title of his rare Book of Cho. "colata, by Henry Stubs; Ph fician foz his Dif Av in thell-" land of Jamaica. Now ( no doubt ) he is Phylician for his Ma-" jettp too in the Town of War wich, and He intends to be Phylicicoan for his Pajetty in the City of London. I could not but took upon this as a Lying Infinuation, as if I had dared to Usurp that Character, which indeed his Majean did Honour me with: And who would not, as the words import, conclude, that either I was not Physician for his Pajetty at Jamaica, or no boubt am now Physician for his Majettp at Warwick? which for any man else to say were a Lye; but in Ecebolius and Vertuoso 'tis only Rattlerp. Such Rattlerp it is when he speaks of my Spitting fire in a Feavour, and Reading by the Light of his Spittle. Whereas I neither had any Feavour these many Years, nor did ever such a Phænomenon befall me in one. Several Months after I hadbeen fick of the Colick Bilious ( which neither is a Feaver, nor was attended with any ) upon the taking of a certain Course of Physick, and Indulging my self in the taking of Snuffe ( I do not take it for a contumely, to be told of my anufte-Box ) I observed that sometimes in the dark, as I blew my Nose, a stream of Light from my Eyes and Nostrils would issue out, and accompany the Pituita, even to the Ground; so that I could discover a Straw or Pinn. But what is all this to a Feaver-Fire, and Reading by it? If this be not a Upe, tis not more certain, that Truth is not to be spoken at all times, than that in this manner, it ought never to be spoke by a Divine: though Ecebolius may say any thing. All the Odious Stories in him and D. M. are thus disguised: I imparted this odde Phano. menon be luce animalium to one of the R.S. desiring to know his judgment, If it might be the effect of the Physick, or such Snuffe as I then took. From him 'tis now transmitted to Ecebolius: As ma-Sons, & fought ny others ( whom I know ) contributed their Symbols to this farce, as well as that of D. M.s. Yet doth Eccbolius deny that any ever Letters of saw his Writings before they were Printed: "No man, except my Raillery Writ- "Transcriber, ever saw my Book till it was Printed \_\_\_\_ This ten by me, to is a notorious Lye (except He Æquivocate) for one of his Neighbours saw the blotted Manuscript of Plus Ultra. And he sent it these Libells. to Doctor More to peruse, before it went to the Press: The Doctor

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told me he altered nothing indeed; but remitted it with a Proverb ( for Proberts and Poetry, he is equal to Mr. Crosse ) to this purpose, as if Ecebolius had over-acted in the Dispute. This, Ecebolius confessed to me at Bathe before Doctor F.C. and repeated the Adage, yet faid, that he added nothing thereunto. Which Ibelieve may be true: But yet hence it is evident, that he is a Lpet. Except the Virtuoli be Dæmoniacks, two must have seen his Prefatory Answer long before it was Printed, and they above one hundred miles from Bathe: For they repeated it ( and I from them to him at Bathe) and faid they had feen it: And Dollor M. communicates some Heads of it, which I believe he had not by Inspiration: I could name more; but this is enough to satisfie the world of the Integrity of our Vertuoso, and shew what Credit he deserves. Yes I must add, that the Renegado at Bathe doth transmit his Papers, and hold strickt Correspondence with H. O. a London-Renegado, and he conferrs with the rest of the Renegadoes. Ecebolius did aske Doctor G. of Bathe ( as his intimate Friend told me ) to help him with an account of the New Inventions in Anatomy : Upon the Publication of Plus ultra, there was some mis-understanding about it . The Canfe, I know \_\_\_\_ About Mr. Croffe, that He hired Prefat. Ans. me, the Gazettier of Chugh doth thus write. "The Reverend P. 190. "Disputer after this careshed and courted him highly; treated co him at Bathe, and entertained him divers times with dear mel-" come at his House, so that at last He was fastned. I was at his House once, and no more: My welcome was as great as he could at that time express: But not so as to be reported beat unto him. I have elsewhere published the Truth, nor doch Ecebolius disprove it; but thus Apologizeth for himself .\_\_ " I insinuated what In his Letters "I thought, and had heard in other termes, and if I Lyed, in P. 29. "Thinking, and Hearing, and giving some Hints of what was recoported, and was likely enough to be believed. This is all he replies for words fo Boutibe and Peremptorp: 'Tis no Infinuation, but Affertion: No mention occurres that He was told fo, or Imagined for This Defence recalls to my mind some Passages when Doctor F. C. did bring us two to an Enterview : I complained to him of a multitude of Lyes which he writ, and was going to Print: and desired he would not trouble the world with such Fopperies; for though they would give me Advantages over him, yet I had not Leisure to pursue them. I told him that He had written a Letter ( of which I had jeen the Original ) to Doltor J. Gardiner, how I went from Bristol to Chue in the Company of a Quaker, and that Mr. Groffe and I fell out there, and had gone together by the Ears

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( or to this effect ) had not the Quaker parted us: That afterwards the Quaker and I came to Bristol, and there quarrelled, and abused each other. This be Comically related to his Friend; But this Relation differs much from that of my Dear welcome at Chue. I told He is a very him the Person that accompanied me was no Quaker, though his hopeful Intelli- Father was one: That I was willing to embrace his Overture of guiding me to Chue, being as great a Stranger to the Way, as unto him. That I was not ashamed to be in his Company, who was so well known to the Lord Brouncker, and the Bishop of Ch. In summ, I said I was confident that He was of the R.S. and in their Catalogue: He denied that, and upon the wager of a Guinny, the History was consulted: But it appeared not that He was there ( though I was sure He had been at the R. S. ) and I papes it This hath given Ecebolius so much matter of Triumph, whereas it was not a tryal of any Citation in the Book against 11m. I convinced him before Doctor F. C. that we had no Quarrel at Chue. nor did Ireturn to Bristol, but left Mr. M. S. to return alone, and departed streight to Bathe, and Warwick. He then replied, that He was told to. Just so D. M. having Printed, that no Civil woman would make use of me at Warwick; Defended himself, That he found now that All his Intelligence was not Gospel. Doth any man imagine it possible that Civil Society can subsift, if

P. 1074

Prefat. Answ. fuch Pantices asithese be tolerated ? Thus Ecebolius tells us of an Oxford Doctor, that should say to this purpose: "That Mr. Stubs is so great a \_\_\_\_ that if he tell you that He was " at fuch a Gentlemans Table, where this, or that Discourse haper pened; you are not to believe as much, as that he knows the Gentleman, or ever faw him. Whosever that Doctor were. and if ever there were so mistaken a Person, It did not become Ecebolius to publish it, who bad seen me more than one Summer at Bathe, attending on the Healths of as Honourable Patients as any that Doctor ever was I think, in company with But not to insist on any more Lpes ( which I am averse from pursuing, to save my self and Reader some trouble, and the Clergy that disgrace, lest it should be said of one of their number, He was the most Impudent Uper in the Morlo). I do hereby demand Ecebolius for my Massal and Mittime. By his own Bromise he is obliged to render himself, and if there be any Generolity in my Adversaries, they will see that He performe it. After he bad asked his half-Brother if he were a Thief, and brought his Certificate, and the Atteftation of Jo. a Court to prove the Truth of his Relation of the Canference with Mr. Crosse ( which yet I am so far from crediting,

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that I will prove out of Ecebolius himself that they attest a Lpt, and that it was not eracly and fincerely such as it is reported ) he Presat. Answ. adds: "Thus I have proved my Relation for Mr. Stubb's Satis- P. 161. se faction: And there is no other matter I have related concerning se either of them, but I shall make it good, when-ever I am salled compon to do it: Yea, if they please. I am ready to lay the issue of all " here. If I cannot prove every matter of Fact, that I have printseed about them; I shall humbly lay my Neck at their Feet: And ss if on the osher hand, either of these Adversaries can prove one of so shefe reproachful things they have alledged against me, I'll be eitheir Malal and their Midime. - In hie Letter now He "I never said any thing of you, that I will not justifie to a Tittle. \_\_\_ I write unto him upon the coming forth of the Dietatory Antweet, and having shewed him more Apes, and Specimina of his Ignorance than he now takes notice of; I told him to this purpose; 'Twas in vain to pester the world with Books of Rayling, that I demanded him for my Matal, and would convince him formally where, and when he please, either before indifferent Persons at Bathe, or before the R. S. and my Lord Brouncker : And that, if He declined this, I would proceed to Bot him at London, Oxford, Cambridg, Bathe, and Bristol. All the Answer I received is this in Print, which is as pertinent to what I demanded, as all He else writes is to what I object. I do here publickly make the same overture: I will openly in any convenient place, and before Intelligent Judges, prove him a Lper, and fo Ignorant and Illiterate a Fellow, that He is not fit to come into any Learned company, or to open his Mouth among ft them. I have already evinced his Ignorance: And all the Impertinence I am. guilty of is this; that my Antitheses are Logically and Directly opposite to his. I will give an Instance or two, by which the Reader. may judge.

#### Mr. Glanvill. Plus ultra. P. 7.

The unfruitfulnels of those Methods of Science, which in for es many Centuries, never brought the World so much Practical Be-"neficial Knowledg, as would help towards the Cure of a Cut-Fineeger, is a palpable Argument, that they were Fundamental Mistakes, and the way was not right.

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#### A Preface to the Reader.

#### The Antithesis of H.S.

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"I suppose that the instance against the Ancient Methods of Science, since it is restrained to their Utility to cure a Cut-singer, is particularly directed to Physick: For, against any other Method of Science the Objection were ridiculous: And in opposition to this Assertion, I do say, I have proved, and will do it to any man, that

Great perfection, have explicated so the Causes of Diseases, and their Gures, and do so enable in to pass a further judgment upon new Plants, and other Discoveries in the Materia Medica, as well as new Diseases, besides that they direct us upon their Principles how to Compound Medicaments according to all Intentions, that neither were they heretofore, nor can any understanding Person (who acts on their Grounds) be at a loss for the Cure of a Cut-Finger.

### Mr. Glanvill's Epicrisis.

"Do I speak of the Methods of Physick, Chirurgery, or any Prefat. Anlw. "Practical Art? If I had done to Master Stubbs had had reason. p. III es But it was nothing thus, I had not to do with any thing of that " Nature, but was discoursing of the Infertility of the way of Noti-" on and Dispute, concerning which I affirmed, that it produced no 2bid p.112. " Practical useful Knowledge. \_\_\_ And unless he can prove that "they did it by the direct Help and conduct of the Notional Dif-" puting Physiology, he will not Sacrifice me to Publick Obloee quy here, nor say any thing in which I am concerned at all. Who In his Letter, " ever denied that Diseases were cured by these Physicians, using "Reason, Experience, and General Rules? But when do you P. 12. co prove that the Dolfrine of the First Matter, and Forms, do di-"rectly, and of it felf, lead to any Discovery by which they were " affisted in Cures? This I told you was my meaning in these "Words, which you force to a sense which best besits your malics cious purpose.

## The Dialysis by H. S.

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and yet by alteration of the terms to vary the Subject of the dispute. At first your Assertion was concerning all the Ancient Dethods of Science, of which even the Empirical Phylicians did follow one; The Methodists, or Corpuscularian Physicians another; and the Dogmatists or Hippocratick-Galenical Physicians, a third; You now recede from hence, and do not only exclude the two former from the Controversie, but the latter. You grant that Dileales and Cut-Fingers were cured by them, they using (or rather proceeding upon) Reason. Experience, and certain General Rules 2 But you lay first, that you are not to be understood concerning Physick, or Chyrurgery or any Practical Art & Truly, had not you limited your Discourse to Phylick, all the mixt Mathematicks had been concerned in the Quarrel: But I pray learn Logick, especially the Doctrine of Proposition, that you may know how the Predicate and Subject are modelled therein. I appeal to any intelligent University-man, whether I could understand you otherwise then about Practical knowledge, Physick, and Thyrurgery, fince you demand a Practical effect, and that to be. in Phytick or Thoruxgery. The courfe you now take is,

Delphinum sylvis appingere, fluctibus apros.

You would have me prove that those things may produce Practical Knowledge, which confitts in meer Speculation, and terminate there. If you ever were so good a Disputant as you pretend to Plusultra. have been, and mispent so much time in your first Stu-P. 12; dies at Oxford (which I believe you did not) you could not be unacquainted with the Distinctions between Speculative and Practical Sciences and Arts: And you would no more have expected from the first the Effects of the latter; than you (but alas! you have no infight 81-

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into the Mathematicks, as Doctor H. M. confessed to melately; and the learned Prelate bath avomed to twenty persons; he to whom you fent your Book, and who sent you an obliging Letter of thanks, not for your performances, but your Present ) then you would expett from pure Mathematicks the productions of the mixt. Keep your self to this Position that you were not to be understood of any particular Are, Physick, or Chyrurgery, and I will only say, vou are Dair-braind, or a Dad-Dan ; as you call me. But you again change the state of the Question; for you demand I Should prove that the Ancients did their Cures by the direct Help and Conduct of the Notional Disputing Physiology; and without I prove this, I do nothing. If the, Physicians do their practical Science are not spoken of nor intended I am not concerned in the Quarrel: However to gratifie you with some Reply; I tell you, that if you mean by Physiology, that part of Natural Phylosophy which is accommodated unto, and is the basis of the Dogmatical Physicians (in Italy and Spain especially) I do say that by the direct help and conduct thereof, they do their Cures; but I must tell you, that in a practical Science, or Art, 'tis not necessary that every part and parcel thereof be Prattical, as you might have learned at Oxford: Neither is it any more necesfary that to compleat Physick, every point be determined, and not disputed; then it is to Mathematicks that it be decided, whether there be any fuch thing in nature as a Mathematical Point, or Surfaces; or whether the Circle can be squared? Though it bath been disputed, and is still, pow Aison is performed, and where? ret do men See, and the Masters of Opticks do Wonders. But you again change the state of the Question, whilst you demand I should prove that the Doctrine of the first Batter and Forms, did, directly, and of it selflead to any discovery.

covery, by which they were affished in their Cures. I am hereby obliged to prove that a part shall do as much as the whole: That one Round of a Ladder shall mount a Man to the World in the Moon: Now that the bopes of flying thither are disappointed, I am to prove that the Ancient Dethods of Science did enable to cure a cut-finger: The Doctrine of the first Watter and Forms is neither a Method of Science, nor Science, though a part of Physiolo= av. 4 ho is now the impertinent? Where lies the charge of impudence. Stranger and despit the medica

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Thus this Illiterate Ecebolius doth ferve me in every Case that he seems to reply unto almost : the Citation of Me. Boyle is true (bateing the errour of the Press, whereupon be triumphs, I appointed it to be Printed by the Book he followed: And I derive no advantage from the Variation. For doth Mr. B. Jay the Spots were not there, but that during many Months, they appeared much seldomer, than it seems they did before. Is it a true Maxime in Natural Philosophy, which in Law sometimes passeth currently ? Idem est non apparere & non esse. The Latine Edition of Mr. B. which was approved by him, and which I followed at first, sayes. Quæ [maculæ] per menses aliquot continuos tanto quamantea (uti videtur) rarius apparuere. He is P. 145. Edit. thus cautious I believe, becanse any man that hath in- Amsteledam, quired into the Cælestial Phænomena, must know that 1667 'tis Recorded how two or more ning Telescopes at the Jame time, have related different Observations : At the same time that Galilæo and Scheiner made their Observations of those Spots, other Learned Inquisitive men could not fee them, or not in the fame places : For ought I can guefs, at the same time that Mr. R.B. could not see them the dilligent Zucchius might see them with his Telescopes, which feem to be the most accurate C 2 work yres in the of

of all, because the most constant; nor doth it appear that Mr. R. B. by reason of the Weakness of his Eyes, or any in England understood their use so well as He. Tis his affertion, " Affero primo, satis constare con. "fensum apparentiarum, sive in locis proxime, sive ea-"dem die, sive pluribus longissime dissitis; sive con-Zucebius phi- ce tinenter diebus a peritis Observatoribus adnotec. 18. Sect, tentur. It is not to be doubted but that skilful Artists viij. p. 232. understand the use and placing of Telescopes of all sorts: 'Tie not to be doubted, but that their Telescopes were as true when employed on terrene Dhieas at a due distance, mith a proportionate Dedium, and combenient apperture, as the figure and confir= mation of them did admit of, and was requifite to verifie their Observations on Earth: But even on Earth there would be no certainty of the eraftness of their Discoveries, could we not by near approach and senfible Examination convince our selves further. Be. magen, nov. sides even in this Air there happens such secret Alterations, that Kircher could on some dayes discover Æina from the Istle of Malta, which on the next day when the Sky seemed much more clear, he could not see. Now if we apply all this to the Calestial Phanomena observed by Telescopes, concerning the distance whereof, the Medium and the Nature of the Objects and their Colours (whether Emphatical or Real) we can make no fensible and near Inquiries: How far are me short of all that Ecebolius doth prate of? What consequence is there in his Argument, that because they do not deceive us on Earth, therefore they will not in the Skie ? In fine, I have demonstrated ; That Telescopes are not so certain as our Eyes: Thit Telescopes do vary their Objects in some things, besides their proportions; nor are their Informations the fame in all things, but the mentioned Difference. Which is contradictory to what this Ignoramns faith; and what-

Ricciol. Al-1. 10 Scet. 6. p. 660, Prob. 50. See Mr. Glanvill if you can find that in the Index.

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ever Mr. Crosse said, (of which I am uncertain) 'tis a shame that this Arrogant should Talk or Write thus: and they may blush who were present at, and had a share in, and witnessed unto so ridiculous a piece of Conversation. I am to learn a new Logick, if my Antitheses be not contradictory to his Tenets: and if they be, let him confess they are pertinent, and probe them to be false: Which the Virtuolo saith, that De bath done: Since all he hath said, or is likely to fav for ever, is already auswered in his for In the Pre face to his mer account of my Spirits, and Performances. Letter. Now, Gentlemen, 'tis clear that the R. S. found out Iome of the Five Instruments so famed for advancing Knowledge. Now tis evident that the R. S. did first propose and practise the Transfusion of 251000: Who can any longer deny, but that the Romans held it antamful to look on the Entrails? Andthat Chymistry was not in use with Aristotle and his Sectators? Let it pass that Tertullian severely censured an inquisitive Physitian of his time for this practile [ of Anatomy ] and that one of the Popes ( he takes it to be Boniface VIII. ) threatned to Excammanicate those that should do any thing of this then abominable nature. All these things (and many Falsities more of which his Plusultra yields me an Additional supply) are answered (and that pertinently, and as becomes a Virtuoso) by the Demonstration of the Balianity of my Temper, and Pypocrifie. 1 shewed how Eccebolius complained that all his first Sudies at Oxford did not qualifie him for the World of Action and Business: I do here solemnly avow, that they have Ruined me: For Ithereby am come to so gros Ignorance, as not to know what is pertinent, or what 'the to oppole, and Answer: and for this Discovery, I am redevable to those generous men that have conversed with real Nature, undisguised with

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Art and Notion: I defie Aristotle, and renounce the Documents of his Rhetorick, wherein he told me that all the Bitternels and Exaggerations, whatever tend ed to raise Indignation or other passions in the Judges, were Impertinencies to the Cause in Debate and that theuse of them to Judges was as ridiculous, as if one would try to make the Rule crooked, the which He would make use of. I will set downthe Passage, to demonstrate to the World what a Fool be was, and what a crowde of Silly Fellowes were the Areopagites of old; and I will set it down in Greek, though I know Eccebolius can do little more than read it (and therefore corrected the Erratum of Doctor More's Letter by committing two New ones: As also mistook the Text and title of his Sermon, about Reason and Religion ) the Passage is this. Nov I w or ras rexput of sagar συνήθεντες, όλιρεν πεποδήκασην αυτής μόριον αὶ μό πίσεις, έντεχεόν ότι μονον Τὰ δ' άλλα, πουδήκαι οι 3 πεὶ μ την ενθυμπιμάτων, ελεν λέγεσην, ο πέρ ότι σώμα της πίσεως. Περὶ δὲ την έξω τὰ σουγείνεν λεγεσιν, ο πέρ όξι σώμα της πίσεως. Περί θε τη έξω τε σεργιατος, τὰ πλείτα σεργματερόνται θαβολή γαρ, κὶ έλεος, κὶ όργη, κὶ τα στεπυτα πάθη της Τυχες ε περί τε σεργματός όξιν, αλλα σεθε τη θηματήν. ως, εὶ σερί πάσας ην τὰς κρίσες, καθάπερ ον εγίαις νῦν όξι πός λεων, κὶ μαλιται ον τὰς δυνομεμέραις, εδέν άν είχον διτι λέγωσν άπαντες γάρ, οι μὶ, δίονται θερ έτω τὰς νομες αγορεύειν οι θε, κὶ χράνται, κὶ κολύκον έξω τὰ σεθχικά ο λέγειν, καθάπερ κὶ ον αρείω πάγω, όρθως τῶτο νιμίζοντες ε χάρ θει τη θιακήν θιακρέφειν, εἰς οργίν σερέχριτας, ἡ φθόνον, ἡ έλεον διμοίον χάρ κάν είτε, ώ μέκλει χείδαι κανόνι, τῶτο ποιήσει τρεβλόν 'Επ δε φανερόν, οπ τῶ μὲν ἀμορβητώντες είδεν ἐξον τῶ διξαι τὸ πράγμα, ὅπ' ἐςιν ἡ εκ ἐκν, ἡ ripper n' e' réporer. Away with those Alenerable Seats: Confound that Notional Learning : Those Logical tricks about shuffling and ordering Propositions and Forms of Syllogisme, the distinctions of Secundum quid and Sympliciter, the pradications of Genus and Species. &c. are justly rejected, and railed upon by this dirtuolo: 'Tis they have betrayed me to this Bafile: 'In this bath made me turn over Indexes (and read Books, that I might know what to look for

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in the Index of such and such an Author, and supply, the defects and want of an Index ) were the MECha= nical Education received, and the Jesuits Morals substituted instead of Aristotle, and Thomas Aquinas (perhaps this was intended in the puny Society contrived at Bathe and Bristol, where new Hypotheses of Morality mere to be proposed) then Lying (if serviceable) were as good as Truth, and Poor Robbins Almanack, Montelion, or Glanvill, as good Authors as Ricciolus, and Zucchius: The authority of Hadrianus Junius should be baffled by those who had not opportunity (or were negligent) to enquire exactly into the Original of Printing: And let the States of Zealand inquire, and judge never so uprightly concerning matter of Fact (done in their own Country,) and let Borellus publish it in Print; yet shall Metius kave the glory of the first Invention, and Galileo be he that first applied it to the Stars. But upon second Thoughts, I believe that the Morld of butinels and Action is not such as Eccebolius talketh of; that the Mechanical Education is the most Extravagant Folly imaginable: That, to Preserve our old Religion, tie absolutely necessary that we retain our Dld Learning: that there is a greater value to be placed on Controvertial Divines, then our Virtuolo do allow of in their Letter against me; and perhaps one Jewel, Lawde, Andrews, Davenant. Whitaker, Chillingworth, Scaliger, Grotius. Selden, Causabon, or Salmasius may ere long be more serviceable unto Monarchy than a Fleet of Ships. Thirty thousand porse and foot, or Three hundred Thousand Virtuosi: I do not reckon my Adversaries amongst the Military strength of the Nation, because they have abandoned their Standard : The Standard of English Eloquence: and when the people have a little more observed them, the Morks which they have atchieved in Six Tears above all that e-

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ver the Aristotelians ever effected, will only conduce to the Improvements of Raillery; We shall perceive that we have been out of the CHAP all this while: that the interests of a Lineal and Dereditary 900= Marchy are different from those of any Usurper; and if my Dlivarian Addrersaries may understand what Arts are subservient to the advancing, or continuing of a Cromwell, a Regecide: I am content to dissent once more from them in behalf of the present Monarchy, the Church of England, the Universities, and my own Faculty: And I think it is no ill Prayer for me to use, nor no argument of Faction and disloyalty to wish. that God would endew many others with fuch a malignity of Temper, and such Oppocrise as

They hindred Four Books of mine in Michelmas

Term from being Licen. sed, though ed nothing repugnant to Church, or Good Manners

I am now possessed with. I shall not dismiss Eccebolius nor the Quarrel thus: I desire that all ingenious Persons would solicite for me to have the Liberty of the Press; and importune the Virtuosi, that Eccebolius may render himself my Uallal, and do his homage and Swear Fealty: they contain if he do so. Sir H. Spelman will tell him his Style is a Lewd Fellow, and a Millain: if he do not make the Monarchy, good his word. He will deserve those Elogies upon another account. I will not make a Cliftime of Dim; the Christian Law hath put an end to all Sacrifices : And that which is Levitical, doth exclude Anclean Bealts from the number of Temple Offerings: am not so angry as to turn Baymint, that I may be revenged on the R ---- otherwise, since Doggs and Alles were of old sacrificed to Bars, and Black Sheep to Pluto; the World could not yield a more Acreeable Mittime for either. He shall live for me (which is more then my Adversaries desire I should do) except the Devil claim his due, and then I ought to be just, if Old Proverbs may pass current among st New Phylosophers: They are more of kinn, and a greater is the

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affinity of the Name, than Stubb and Stubbs jet to shew my Pedigree, he tells me in the preface to the Preparatory Answer, of the Stubb's that were hanged for Creason: 'tis a Thin kindred that yields neither Whorenor Rogue: There are more of the Glanvills besides him that disgrace the Family : However, He should not have changed the Terms again, and givenme Allegations of one Francis Stubbs that was Executed, and one John Stubbs, whom Cambden and Marten admire for that Bravery which he shewed at the Cutting off of his Hand: He took off his Hatt immediately thereupon with the remaining hand, and cryed God bless the Queen, nor did He suffer for Treafort, his Book contained not so much of Reproaches against the Ducen, as Reasons against her Marriage with a French Danist. Now let us observe from hence the Logick of our Virtuolo: How doth it appear that the Stubb's were hanged for Treason in former Reigns: Here is but one so Executed, and he not of my Dame; and I am too little acquainted with my Dediates to claim Kindred with either of the Persons alledged.

Ecebolius saith in behalf of them, because he doth not understand (Ashat he commends; yet ought he to be blamed for detracting from them, lest it turn to the universal Detriment of the Monarchy and Religion. The passage I cited, is too octous to be thus excused:

And even now he rejects their Logick, Natural Philosophy and Metaphysicks; each whereof he is unacquainted with. As much as he pretends to have studied Aristotle (whom I am sure he cannot Construe) and the Peripatetick Physiology, set did he not know that Aristotle held the Gravity of the Ave, and was therein followed by the Avincenins of Averroists, whose Authority alone was principally received in the Arabian Schools.

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Schools, and generally amongst the Western Christians, till the Laterane Council put a check to the Averroists. As for Logick, he knows not what it is either in the Practise or Notion; without Good skill therein, 'tis impossible for a man to benefit himself considerably in the Studies which our Virtuolo doth allow of con without Metaphylicks to defend the Christian Religion and Protestancy, or explain the 39. Articles, Athanssian, and Nicene Creeds. But He spoke in my hearing with much contempt of the Thirty Dine Articles, Saying, Three of them were calbinistical: And as to the Athanasian Creed. He doth never read it, and usually declaims against it; and sold Doctor I. M. that we would Burn before he would read it. Thus he (not to speak of his curtailing the Common Prayer, and dis-use of the Surplice lest the pulling it off should Discompose his Periwigg) observes his Subscriptions and the Laws of the Land! As to what he cites out of his Letter against Aristotle, had be prooceeded the words would have been thefe: , I blame not therefor the use of Aristotle in the Universities " among the Iunior students, though I cannot approv the streightness and swath of Elder Dijudicants, from es whom a more generous temper might be expected, than ce to lit down in a contented despair of any further c Progress into Science, than hath been made by their "IDOlized Sophy and depriving themselves and all "this World of their Liberty in Phylolophy a Sacra= "mental adverence to an Deathen Authority. And "I confess'twas this, Pedantry, and Bovishness c of bumour that drew from me those Resections " I directed against Aristotle \_\_\_\_ This too must passas allowable; must it ? Pedauter and 30v= ishness of Dumour is fixed upon the Governours of the Universities, how Sage and Reverend foever they be, and what rank soever they hold in Church and State ;

State; The man of Stagiaa is said to be their IDO115ed Sophy; and they charged to deprive themselves and all this Morld of their Liberty in Philosophy by a Sa= cramental adherence to an Deathen Authority. I will not exaggerate this passage, but leave it to the consideration of all Intelligent men, whether this be not a Libelling of the Universities, and the King their Founder, and from whose Authourity their Statutes have force. Is it fit that such an Ignorant, Inconsiderate Fellow as Ecebolius should thus animadvert upon the Demeanour of those who are so much his Superiours, who act according to their Statutes, and who understand the danger of any Innovation in Learning under an Hereditary Monarchy, as well as they do the Civil Consequences it would draw upon the Church: They are sensible of the present dammage which it bath done; they know the Character of us Illanders too well, to comply with it: they know it is not requisite to the Being, or Mell-Being of an Ancient Government to introduce such a charge; and that'tis absolutely necessary that this do oppose it. Besides the Fatal presidence which Ancient Diffory, & even the Records of both Universities, to suggest in reference to Changes of lesser moment, they know that the Papilts do allow \* See the this Philosophical Liberty to some of their Members rather to distract us, then that they approve it; and Lavain Do. that their Church bath a power to remedy any in- Bors, in the convenience, which we have not : That in their Col. end of the feledges they reverence Aristotle as much as me: \* cond Edition of Plempiu's That the University of Lovaine hath censured Carte- Fundament. sian Philosophy; and that the Belgick Universities &c. have suppressed it publickly. I shall relate the degree of Jac du bois Utrecht, because it contanis the Motives they ment up- contra Witon, and the prejudice they found to arise from the New pres. Philosophy. " Ultrajecturiæ Academiæ, judicium hoc "est, Professores Acad. Utraij reijcere Novam istam  $D_2$ 

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" Philosophiam, primo qui a veteri Philosophia, quam " Accademia toto orbem terrarum hactenus optimo conce silio docuere, adversatur, ejusq; fundamenta sub-" vertet. De inde quia juventutem a vetere & sana Philosophia avertit, impedig; quo minus ad culmen " eruditionis provehatur, co quod istius prasumptæ "Philosophia adminiculo techanologemata in authorum libris, Professorumg; ledionibus ac disputationibus usco tata percipere nequit. Postremo quod ex eadem con-"traria falsa & absurda Opiniones partim consee quantur partim ab improvida juventute deduci pos-" sint pugnantes cum cæteris disciplinis ac facultaribus, atq; imprimis cum Orthodoxa Theologia. To what an heighth of Impudence and Arrogance it hath transported Ecebolius, is manifest?: Nor are his Abettors less moderate: The History contains the like Suggestions as I have shewed: And the Anonymous Epistoler doth sty as high: 'I'm strange a Doctor of. Divinity should write so; and more, that he should thus defend the passage I animadverted upon, in a Manuscript not yet published, but communicated to others ; the reply to what I say (p.42. and 29.) how he makes the Universities Lands alienable, is: They most " were designed for another kind of Worship than what. "is now in use: And they may be changed in one. " as well as in another Particular for the better. E But I speak not against useful and modest disputa-"tions, but against Barbarous and conceited Terms. ---- Reader, The Subject of the Question bermixt him and me, is Controversial Divini= tvinot the Barharous and conceited Terms therein. Who can Dispute with such men as these?

It may not be impertinent to this subject for me to take notice of a passage of Mr J. E. concerning the Universities, which though it be more favourable to Theology then this last Author would allow of yet didit not

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become Him to write, it being very derogatory to the Vniver stier. - "That might redeem the World from the In colency of so many Errours as we find by daily experience will not abide the Test, and yet retain their "Tyranny; and that by the credit only of, and adcodresses of those many Fencing-Schooles which have "been built (not to name them Colledges) and exce dowed in all our Universities: I speak not here of those ce reverend and renowned Societies which converse with "Theology, cultivate the Laws Municipal or forreign; ci but I deplore with just indignation, the supine negec lect of the Other, among st such numbers as are set apart for empty and less fruitful Speculations.----These are his words in the Dedication of Nadius's Instructions concerning a Library (out of which Dedication I find T. S. to have stollen his Dedication to the King, only be multiplied the Errours of his Original) out of whih'th manifest, that Mr. J. E. didnot understand the Constitution of our Universities; for we have no such Fencing-Schools (not to name them Colledges) built and endow'd to any such purpose as he speakes of:nor any numbers set apart for less fruitful and empty speculations, then the Virtuosi do pursue. 'Tis true, there is a Professour of Natural Philosophy in Oxford; and that the Scholars in the Course of their Studies, are obliged to employ a part of their time in Logick, Physicks, and Metaphysicks: And the reason, is because that the interest of our Monarchy is an Interest of Beligion, and the support of the Religion established by Law is complicated with, and depends upon those Studies : Tis no less then impossible for any man to understand or manage the controverses with the Papists (and our Church is framed principally in. opposition to them; as appears by our Articles, and Homolies: and the Monarchy subsists only by that opposition) without a deep knowledge of those Sci= ences : As any ma must know who hat hinspected nomore than

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than the Controver sof the Euchavist, wherein the Do-Arine of substance, & accidents, of Quantity distinct from Batter of Abication, te. is so requisite to be understood, that the protestants sustain the dispute without them: For if we change our Notions in Matural Dhilosophy, we then differ in the principals of discourse; and where men differ therein, 'ew impossible for them to proceed. In all discourse there must be some common suppositions and definitions admitted of ; and every man that is convinced, is convinced by somewhat which he already holds : By the change agitated, and now pursued, we make our selves incepable of convincing a papist: and considering the prejudices of long Education, and the Authority of the Catholick Church, we must render our selves in their judgment as Perfeit folles; and not be able to proceed, is in this case all one as to be bassled. Besides, 1 cannot comprehend, and I do inculcate it to our Church and States=men, That no new discovery in Natural Philosophy can countervaile that dammage which the publick will receive by this change of Philoligical principles : for besides what we shall suffer in the present management of disputes, and those dangers which usually accompany all Changes (which are such asno wise man would introduce them, in a settled Government, though he comply theremith when they are unavoydable)we shall so disparage all the ReverendFathers & Writers of our Church, and of precedent Ages, that their Authority and Repute will cease and whatthey have written become universally contemptible, when their Philosophical Notions shall be despised, and each fimilitude, or illustration seem ridiculous to every hop. Tis most certain, that we know the inconveniencies of our present condition, and know we can subsist and flourish under them: but we do not know the incon-

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veniences we shall run into, nor any besiting remedy for them.

I did in a private Letter upbraid Ecebolius with 18--in omitting a passage of Dr. H. Moor's Letter, wherein he declared, that He payed not any of those weekly Contributions, no nor so much as Admission-money; as was usual. I could not believe the Dr. so Disingenuous as to deny it, or equivocate, as he seemed to do in the Case: but he himself told me what was omitted, he was troubled at it, and protested upon the Faith of a Christian, that 'twas done without his knowledge: and that He impowred Ecebolius to print the whole Letter. Let the P. 13. World now judge of the demeanor of Ectbolius, imagine how Heserves me, who thus abused his best friend. He replies for himself, that he emitted that Meaning, because it seemed to be ridiculous. But he might have known, that I reckoned upon all those Catalogues of their Fellows, as falle, where such were accounted on, as neither hold Correspondence with the rest, nor Day See my Prethe usual Contributions. All the mistake of mine face against was that I supposed him to have payed Admission- T.S. money; and so to have been heretofore of the R. S. Whereas He never payed so much as that; and the Filles is more manifest, that they pick up a company of men, and desire they would augment the Speciousnels of their Catalogues, and ducquoy others; and they will ask no more of them. The excuse of Ecebolius is the more unpardonable, because at our Enterview at Bathe, I told him this very thing before Doctor F. C.

In his Letter,

I forgot to take notice of one passage in Eccbolius about Flavius Goia, that He invented the Compass.

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He acknowledgeth that it is a mistake: but 'tis an errour of the Press: it should have been Flavius, or Goia. He is consident it was so in his Copy: and that he was sensible of the mistake committed about it elsewhere. But I am consident the mistake was not in the Printer, but Author: for in his Plustilitia, He doth make Flavius Goia of Amalphis to be the discoverer of the Compass: whereas all the best Writers say, the inventor was either flavius of Amals; or Johannes Doia (or Gira) of Melsi.

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